

FILE 'REGISTRY' ENTERED AT 17:35:44 ON 22 JAN 2002
L1 SCREEN 970
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 50 S L3 SSS SAM
L5 5132 S L4 FULL
L6 20611 S 108-31-6/CRN
L7 8 S L6 AND L4

→ maleic
anhydride

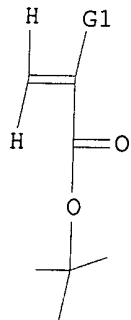
FILE 'CAPLUS, USPATFULL' ENTERED AT 17:36:49 ON 22 JAN 2002
L8 5 S L7
L9 6208 S L5
L10 5 S L8 AND L9

FILE 'REGISTRY' ENTERED AT 17:41:26 ON 22 JAN 2002
L11 7375 S MALEIC (W) ANHYDRIDE

=> d 13

L3 HAS NO ANSWERS

L1 SCR 970
L2 STR



G1 H, Me

Structure attributes must be viewed using STN Express query preparation.
L3 QUE ABB=ON PLU=ON L2 AND L1

L10 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:644598 CAPLUS

DOCUMENT NUMBER: 135:218729

TITLE: Lactone ring-containing polymers and resin compositions for photoresists

INVENTOR(S): Gokochi, Toru; Okino, Takeshi; Asakawa, Koji; Shinoda, Naomi; Funaki, Katsunori; Tsutsumi, Kiyoharu; Horai, Akira

PATENT ASSIGNEE(S): Toshiba Corp., Japan; Daicel Chemical Industries, Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 49 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

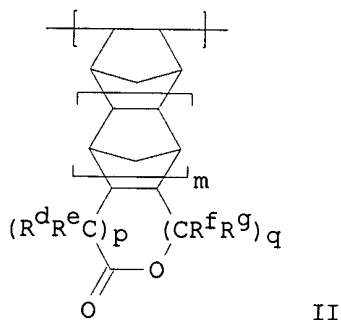
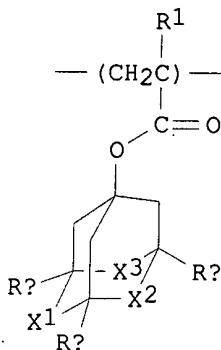
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

9/4/01

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001240625	A2	20010904	JP 2000-49549	20000225

GI



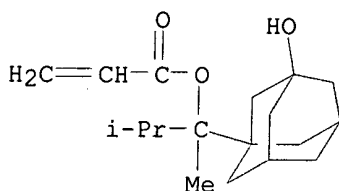
AB Photoresist compns. contain polymers contg. monomer units I and/or II (R1, Ra-Rg = H, Me; X1-X3 = CH2, CO2; at least one of X1-X3 is CO2; m, p, q = 0-2) and photoacid generators. The compns. show good adhesion to substrates such as Si and can precisely form fine patterns in semiconductor manufg.

IT 251564-62-2P 262608-27-5P 324761-49-1P
325991-23-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of lactone ring-contg. polymers for photoresists)

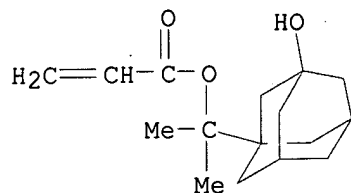
RN 251564-62-2 CAPLUS

CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.3,7]dec-1-yl)-1,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



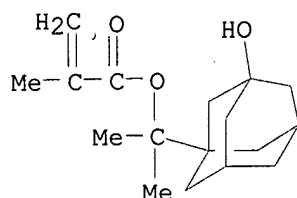
RN 262608-27-5 CAPLUS

CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester (9CI) (CA INDEX NAME)



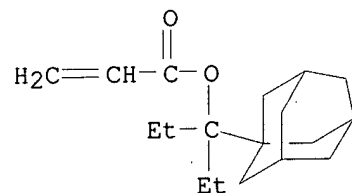
RN 324761-49-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester (9CI) (CA INDEX NAME)



RN 325991-23-9 CAPLUS

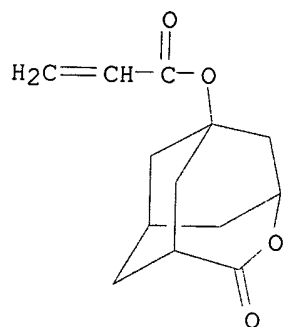
CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester (9CI) (CA INDEX NAME)



IT 300833-11-8P 357340-35-3P 357340-36-4P
 357340-37-5P 357340-41-1P 357340-43-3P
 357340-44-4P 357340-45-5P 357340-46-6P
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 357340-59-1P 357340-60-4P 357340-61-5P
 357340-62-6P 357340-65-9P 357340-66-0P
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 357340-71-7P 357340-75-1P 357340-80-8P
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 357341-33-4P 357341-35-6P 357341-36-7P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (prepn. of lactone ring-contg. polymers for photoresists)

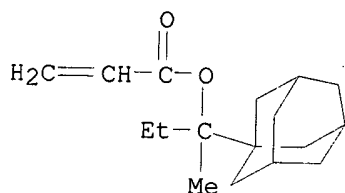
CRN 265999-35-7
CMF C13 H16 O4



RN 357340-36-4 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl 2-propenoate (9CI)
(CA INDEX NAME)

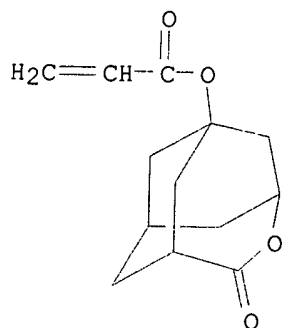
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CRN 325991-25-1
CMF C17 H26 O2



CM 2

CRN 265999-35-7
CMF C13 H16 O4

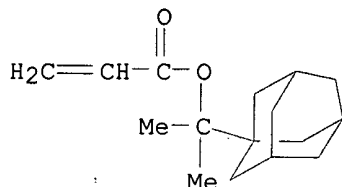


RN 357340-37-5 CAPLUS
CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl 2-propenoate (9CI)

RN 300833-11-8 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl ester,
polymer with 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI)
(CA INDEX NAME)

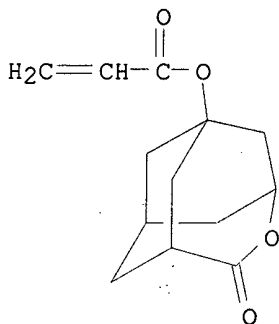
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CRN 300833-10-7
CMF C16 H24 O2



CM 2

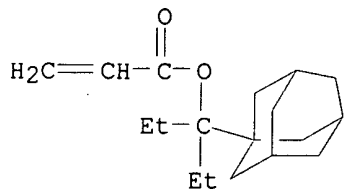
CRN 265999-35-7
CMF C13 H16 O4



RN 357340-35-3 CAPLUS
CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
polymer with 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI)
(CA INDEX NAME)

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CRN 325991-23-9
CMF C18 H28 O2



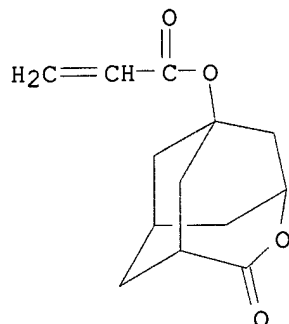
CM 2

(CA INDEX NAME)

CM 1

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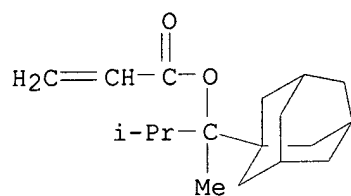
CMF C13 H16 O4



CM 2

CRN 251564-60-0

CMF C18 H28 O2



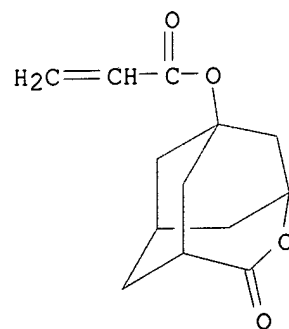
RN 357340-41-1 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with
5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl 2-propenoate (9CI) (CA INDEX
NAME)

CM 1

CRN 265999-35-7

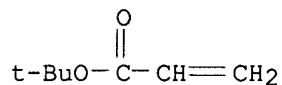
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CM 2

CRN 1663-39-4

CMF C7 H12 O2



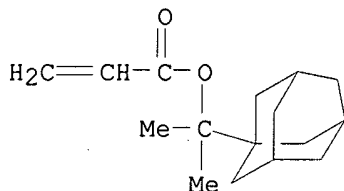
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CN 2-Propenoic acid, 3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undéc-1-yl 2-propenoate (9CI) (CA INDEX NAME)

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CRN 300833-10-7

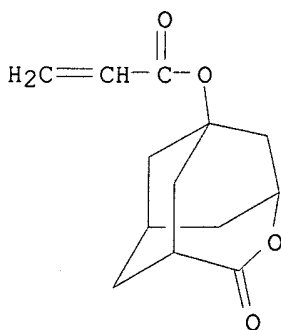
CMF C16 H24 O2



CM 2

CRN 265999-35-7

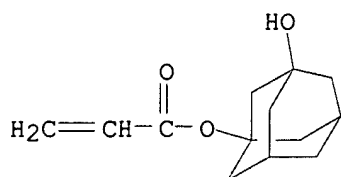
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CM 3

CRN 216581-76-9

CMF C13 H18 O3



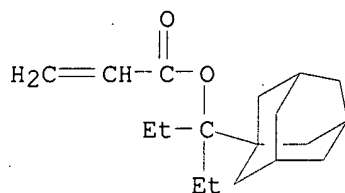
RN 357340-44-4 CAPLUS

CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylpropyl ester,
polymer with 3-hydroxytricyclo[3.3.1.1.3,7]dec-1-yl 2-propenoate and
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NAME)

CM 1

CRN 325991-23-9

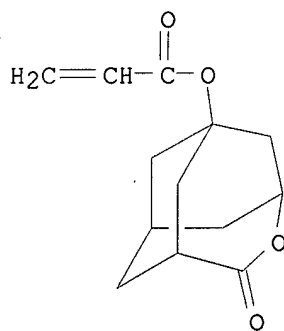
CMF C18 H28 O2



CM 2

CRN 265999-35-7

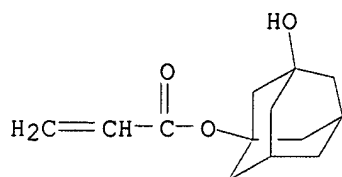
CMF C13 H16 O4



CM 3

CRN 216581-76-9

CMF C13 H18 O3



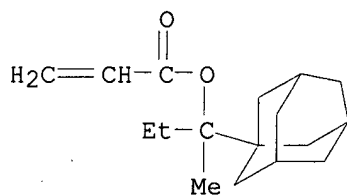
RN 357340-45-5 CAPLUS

CN 2-Propenoic acid, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl ester, polymer with 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 325991-25-1

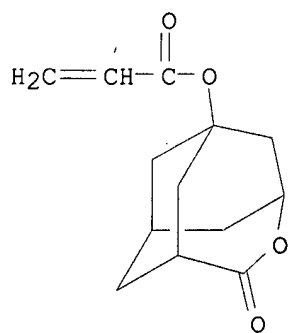
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CRN 265999-35-7

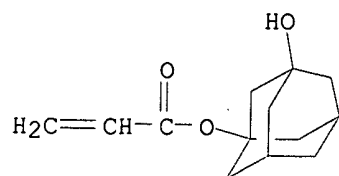
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CM 3

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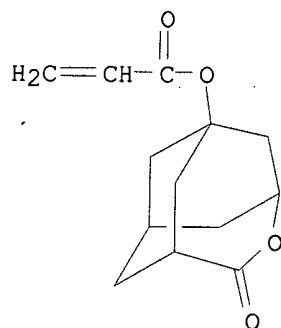
CMF C13 H18 O3



RN 357340-46-6 CAPLUS
 CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.3^{1,7}]dec-1-ylpropyl ester, polymer with 3-hydroxytricyclo[3.3.1.3^{1,7}]dec-1-yl 2-propenoate and 5-oxo-4-oxatrimethylene[4.3.1.3^{1,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

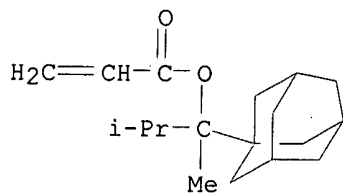
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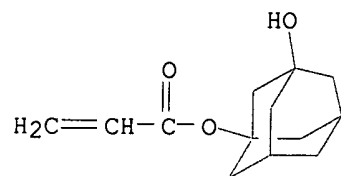
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CRN 251564-60-0
 CMF C18 H28 O2



CM 3

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 CMF C13 H18 O3



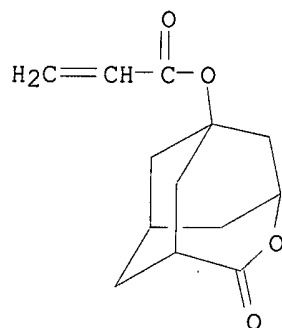
RN 357340-49-9 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with
3-hydroxytricyclo[3.3.1.3^{0,7}]dec-1-yl 2-propenoate and
5-oxo-4-oxatricyclo[4.3.1.3^{0,7}]undec-1-yl 2-propenoate (9CI) (CA INDEX
NAME)

CM 1

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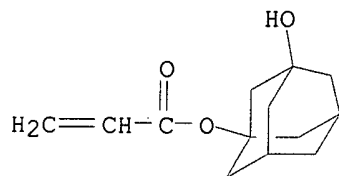
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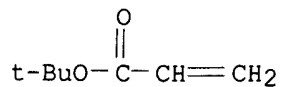
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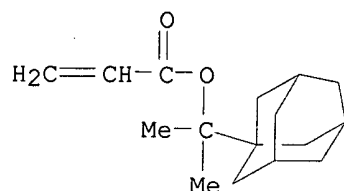
CMF C7 H12 O2



RN 357340-51-3 CAPLUS
 CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

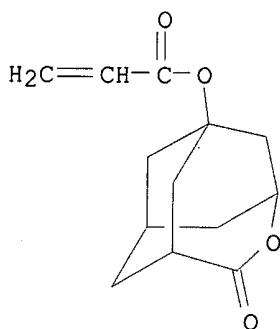
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CRN 300833-10-7
 CMF C16 H24 O2



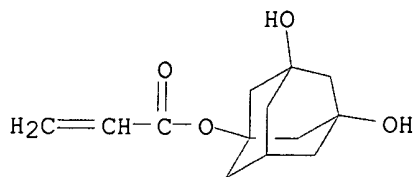
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CRN 265999-35-7
 CMF C13 H16 O4



CM 3

CRN 216581-85-0
 CMF C13 H18 O4

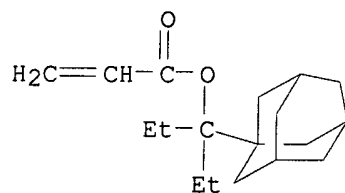


RN 357340-52-4 CAPLUS
 CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 325991-23-9

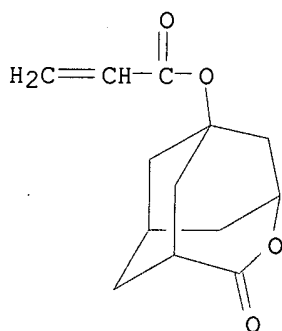
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CM 2

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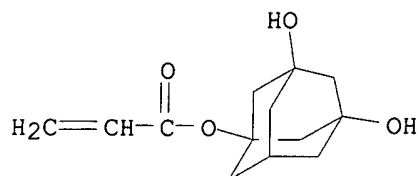
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CM 3

CRN 216581-85-0

CMF C13 H18 O4



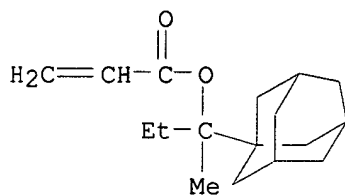
RN 357340-53-5 CAPLUS

CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl 2-propenoate and 5-oxo-4-oxatracyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 325991-25-1

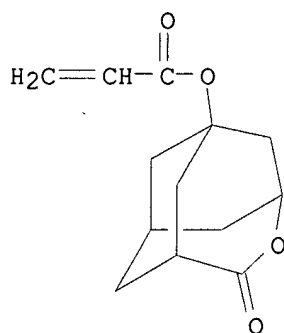
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CM 2

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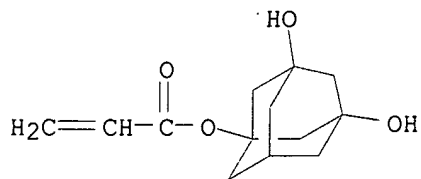
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CM 3

CRN 216581-85-0

CMF C13 H18 O4



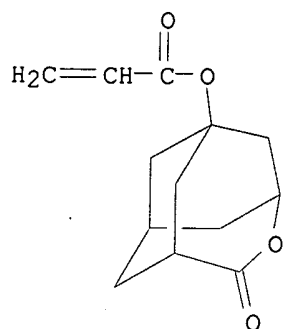
RN 357340-54-6 CAPLUS

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CM 1

CRN 265999-35-7

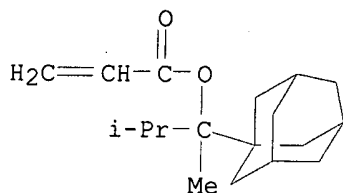
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CM 2

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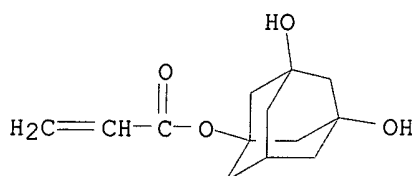
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CM 3

CRN 216581-85-0

CMF C13 H18 O4



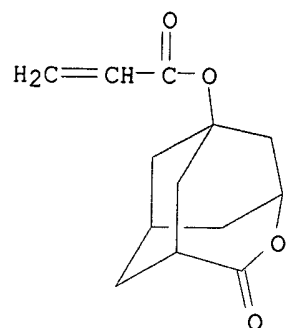
RN 357340-57-9 CAPLUS

CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1.3,7]dec-1-yl ester, polymer with 1,1-dimethylethyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7

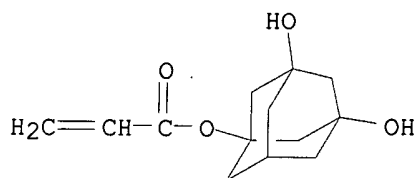
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CM 2

CRN 216581-85-0

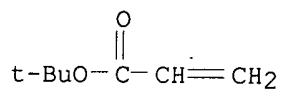
CMF C13 H18 O4



CM 3

CRN 1663-39-4

CMF C7 H12 O2



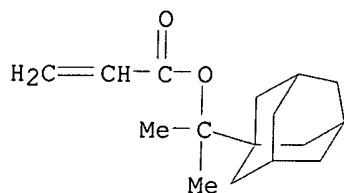
RN 357340-59-1 CAPLUS

CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylethyl ester, polymer with 5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl 2-propenoate and 4-oxotricyclo[3.3.1.1.3,7]dec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 300833-10-7

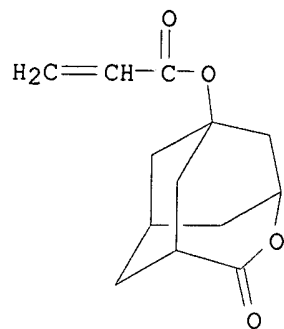
CMF C16 H24 O2



CM 2

CRN 265999-35-7

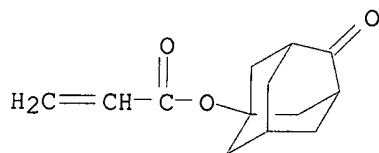
CMF C13 H16 O4



CM 3

CRN 216582-09-1

CMF C13 H16 O3



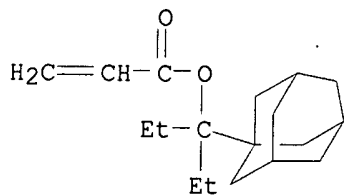
RN 357340-60-4 CAPLUS

CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester, polymer with 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl 2-propenoate and 4-oxotricyclo[3.3.1.13,7]dec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 325991-23-9

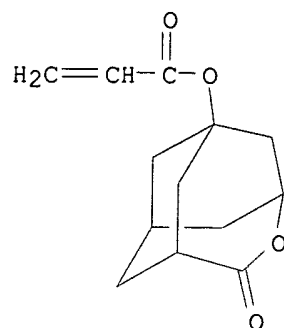
CMF C18 H28 O2



CM 2

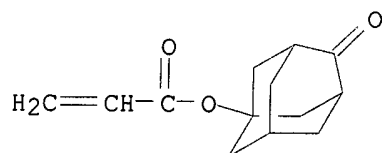
CRN 265999-35-7

CMF C13 H16 O4



CM 3

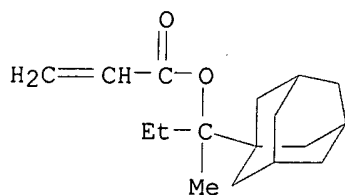
CRN 216582-09-1
CMF C13 H16 O3



RN 357340-61-5 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylpropyl ester,
polymer with 5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl 2-propenoate and
4-oxotricyclo[3.3.1.1.3,7]dec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

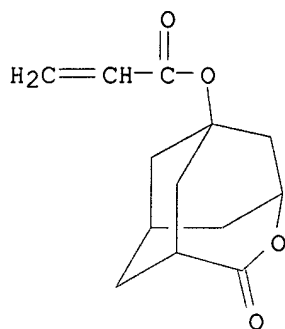
CM 1

CRN 325991-25-1
CMF C17 H26 O2



CM 2

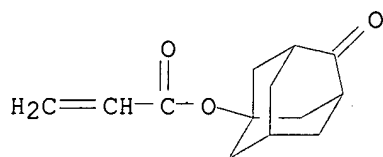
CRN 265999-35-7
CMF C13 H16 O4



CM 3

CRN 216582-09-1

CMF C13 H16 O3



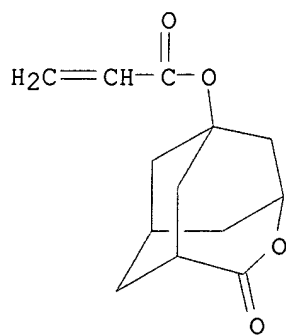
RN 357340-62-6 CAPLUS

CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.1.3]dec-1-ylpropyl ester, polymer with 5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl 2-propenoate and 4-oxotricyclo[3.3.1.1.3,7]dec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7

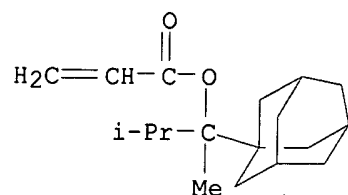
CMF C13 H16 O4



CM 2

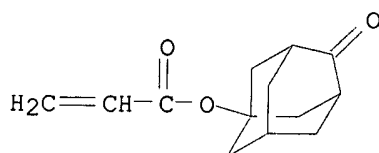
CRN 251564-60-0

CMF C18 H28 O2



CM 3

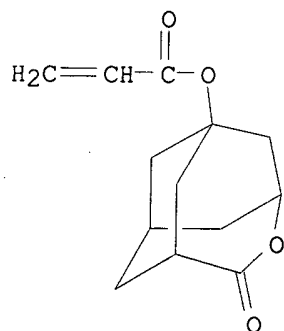
CRN 216582-09-1
CMF C13 H16 O3



RN 357340-65-9 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with
5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl 2-propenoate and
4-oxotricyclo[3.3.1.13,7]dec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

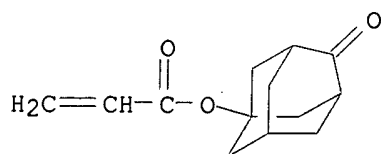
CM 1

CRN 265999-35-7
CMF C13 H16 O4



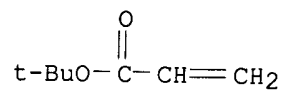
CM 2

CRN 216582-09-1
CMF C13 H16 O3



CM 3

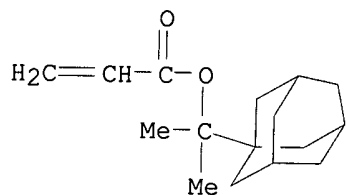
CRN 1663-39-4
CMF C7 H12 O2



RN 357340-66-0 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl ester,
polymer with 2,5-furandione and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl
2-propenoate (9CI) (CA INDEX NAME)

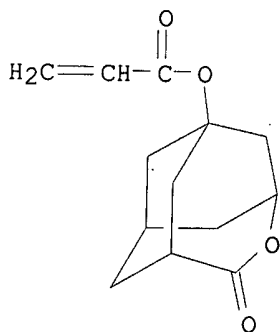
CM 1

CRN 300833-10-7
CMF C16 H24 O2



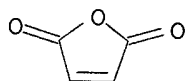
CM 2

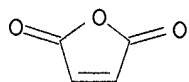
CRN 265999-35-7
CMF C13 H16 O4



CM 3

CRN 108-31-6
CMF C4 H2 O3

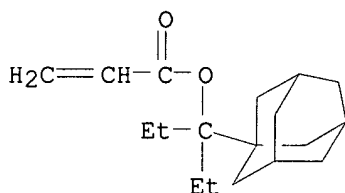




RN 357340-67-1 CAPLUS
 CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
 polymer with 2,5-furandione and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl
 2-propenoate (9CI) (CA INDEX NAME)

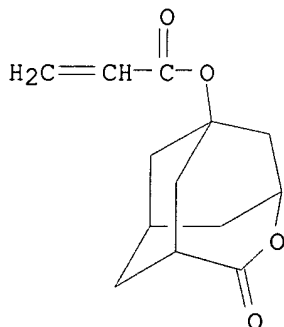
CM 1

CRN 325991-23-9
 CMF C18 H28 O2



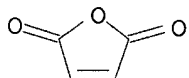
CM 2

CRN 265999-35-7
 CMF C13 H16 O4



CM 3

CRN 108-31-6
 CMF C4 H2 O3

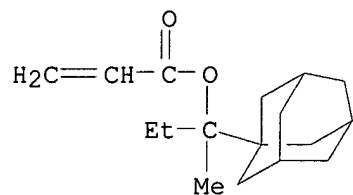


RN 357340-68-2 CAPLUS
 CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
 polymer with 2,5-furandione and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl
 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 325991-25-1

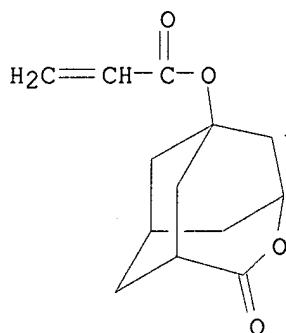
CMF C17 H26 O2



CM 2

CRN 265999-35-7

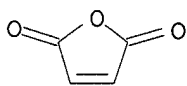
CMF C13 H16 O4



CM 3

CRN 108-31-6

CMF C4 H2 O3



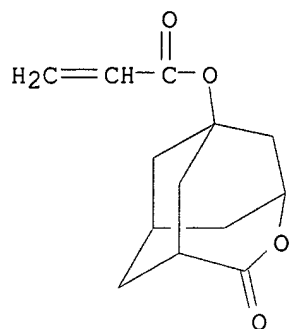
RN 357340-69-3 CAPLUS

CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 2,5-furandione and 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl
2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7

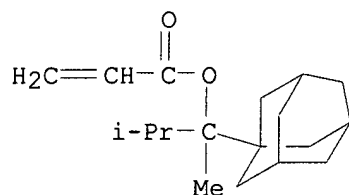
CMF C13 H16 O4



CM 2

CRN 251564-60-0

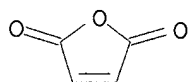
CMF C18 H28 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



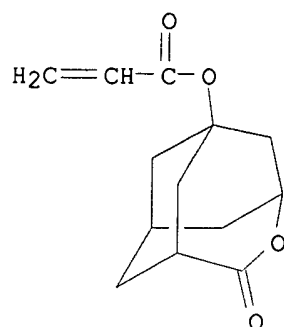
RN 357340-71-7 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7

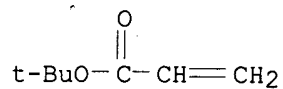
CMF C13 H16 O4



CM 2

CRN 1663-39-4

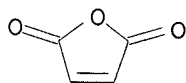
CMF C7 H12 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



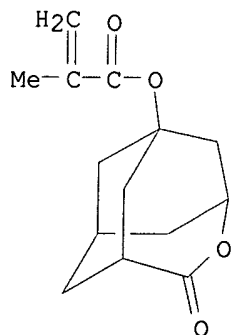
RN 357340-75-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with 5-oxo-4-oxatrimethylene[4.3.1.1^{3,8}]undec-1-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

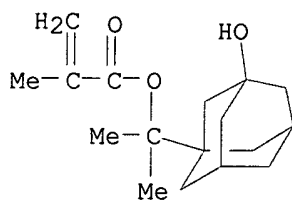
CRN 348596-87-2

CMF C14 H18 O4



CM 2

CRN 324761-49-1
CMF C17 H26 O3

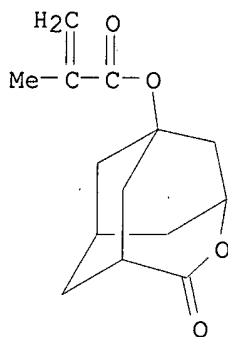


RN 357340-80-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl ester,
polymer with 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-1-methylethyl
2-methyl-2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

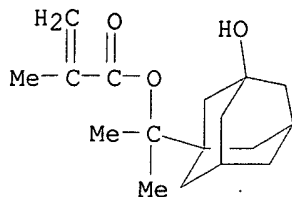
CM 1

CRN 348596-87-2
CMF C14 H18 O4



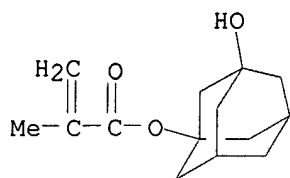
CM 2

CRN 324761-49-1
CMF C17 H26 O3



CM 3

CRN 115372-36-6
CMF C14 H20 O3



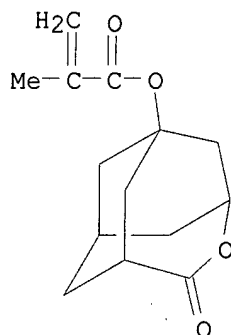
RN 357340-85-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3,5-dihydroxytricyclo[3.3.1.3.1]dec-1-yl ester, polymer with 1-(3-hydroxytricyclo[3.3.1.3.1]dec-1-yl)-1-methylethyl 2-methyl-2-propenoate and 5-oxo-4-oxatrimethylene[4.3.1.3.1]undec-1-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 348596-87-2

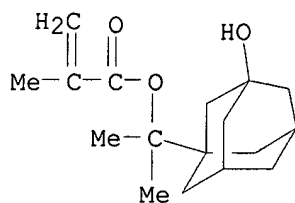
CMF C14 H18 O4



CM 2

CRN 324761-49-1

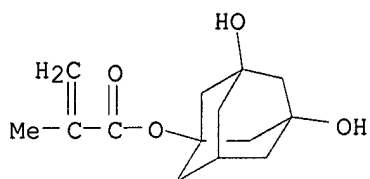
CMF C17 H26 O3



CM 3

CRN 115522-15-1

CMF C14 H20 O4



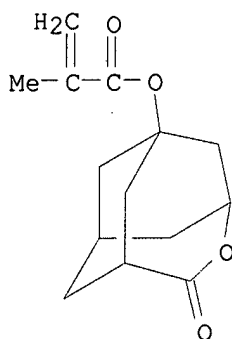
RN 357340-89-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-1-methylethyl ester, polymer with 5-oxo-4-oxatricyclo[4.3.1.13,8]undec-1-yl 2-methyl-2-propenoate and 4-oxotricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 348596-87-2

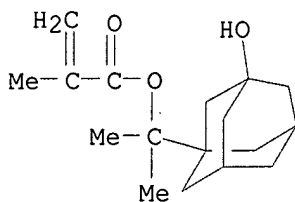
CMF C14 H18 O4



CM 2

CRN 324761-49-1

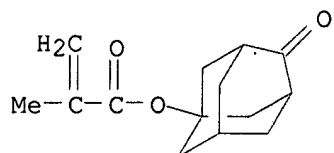
CMF C17 H26 O3



CM 3

CRN 305379-04-8

CMF C14 H18 O3



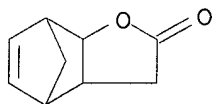
RN 357341-00-5 CAPLUS

CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylethyl ester,
polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one
(9CI) (CA INDEX NAME)

CM 1

CRN 357340-99-9

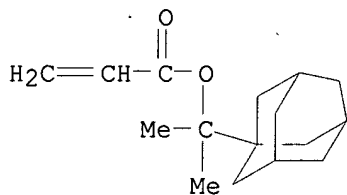
CMF C9 H10 O2



CM 2

CRN 300833-10-7

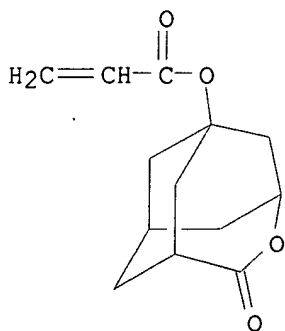
CMF C16 H24 O2



CM 3

CRN 265999-35-7

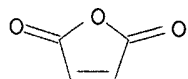
CMF C13 H16 O4



CM 4

CRN 108-31-6

CMF C4 H2 O3



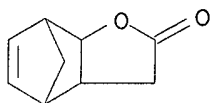
RN 357341-01-6 CAPLUS

CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester, polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 357340-99-9

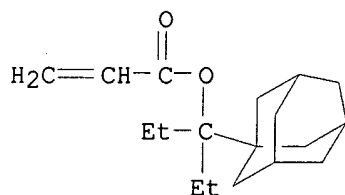
CMF C9 H10 O2



CM 2

CRN 325991-23-9

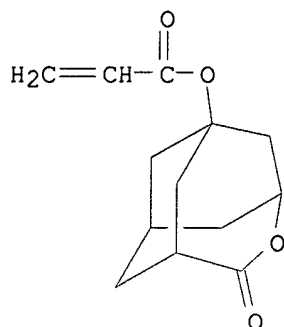
CMF C18 H28 O2



CM 3

CRN 265999-35-7

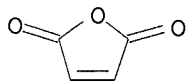
CMF C13 H16 O4



CM 4

CRN 108-31-6

CMF C4 H2 O3



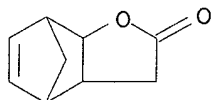
RN 357341-02-7 CAPLUS

CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester, polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 357340-99-9

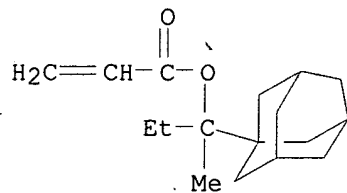
CMF C9 H10 O2



CM 2

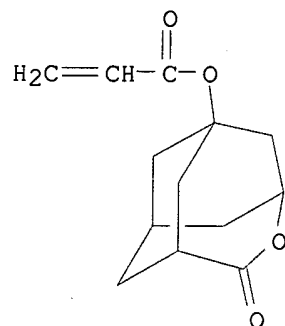
CRN 325991-25-1

CMF C17 H26 O2



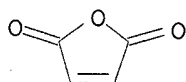
CM 3

CRN 265999-35-7
CMF C13 H16 O4



CM 4

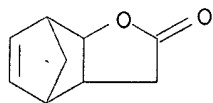
CRN 108-31-6
CMF C4 H2 O3



RN 357341-03-8 CAPLUS
CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one
(9CI) (CA INDEX NAME)

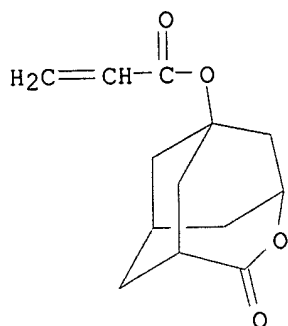
CM 1

CRN 357340-99-9
CMF C9 H10 O2



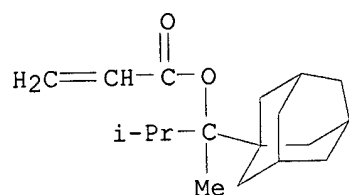
CM 2

CRN 265999-35-7
CMF C13 H16 O4



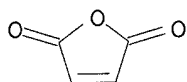
CM 3

CRN 251564-60-0
CMF C18 H28 O2



CM 4

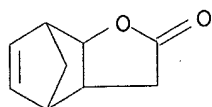
CRN 108-31-6
CMF C4 H2 O3



RN 357341-06-1 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione,
5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and
3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX
NAME)

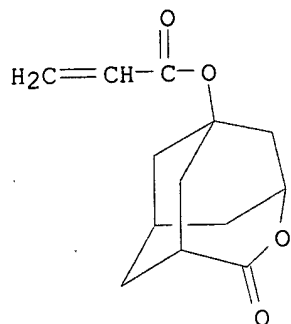
CM 1

CRN 357340-99-9
CMF C9 H10 O2



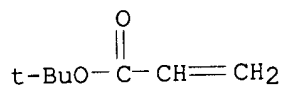
CM 2

CRN 265999-35-7
CMF C13 H16 O4



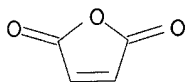
CM 3

CRN 1663-39-4
CMF C7 H12 O2



CM 4

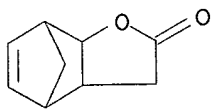
CRN 108-31-6
CMF C4 H2 O3



RN 357341-08-3 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl ester, polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-methyl-2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX NAME)

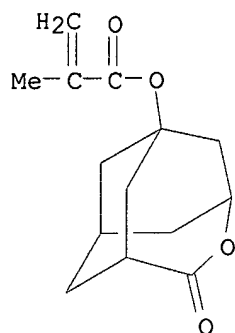
CM 1

CRN 357340-99-9
CMF C9 H10 O2



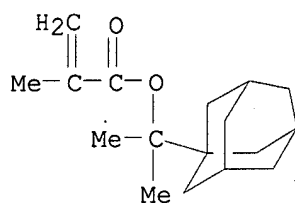
CM 2

CRN 348596-87-2
CMF C14 H18 O4



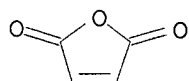
CM 3

CRN 279218-76-7
CMF C17 H26 O2



CM 4

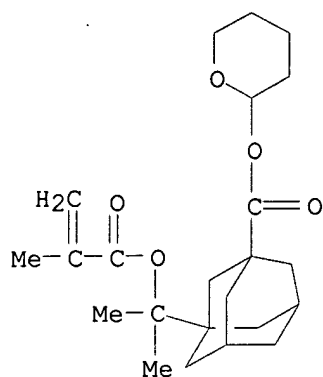
CRN 108-31-6
CMF C4 H2 O3



RN 357341-10-7 CAPLUS
CN Tricyclo[3.3.1.1.3]decane-1-carboxylic acid, 3-[1-methyl-1-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, tetrahydro-2H-pyran-2-yl ester, polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1.3,8]undec-1-yl 2-methyl-2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX NAME)

CM 1

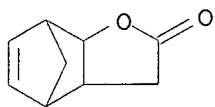
CRN 357341-09-4
CMF C23 H34 O5



CM 2

CRN 357340-99-9

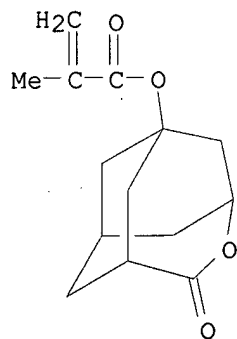
CMF C9 H10 O2



CM 3

CRN 348596-87-2

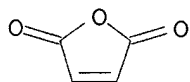
CMF C14 H18 O4



CM 4

CRN 108-31-6

CMF C4 H2 O3



RN 357341-12-9 CAPLUS

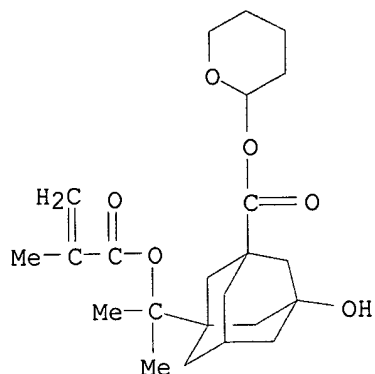
CN Tricyclo[3.3.1.1^{3,8}]decane-1-carboxylic acid, 3-hydroxy-5-[1-methyl-1-[(2-

methyl-1-oxo-2-propenyl)oxy]ethyl]-, tetrahydro-2H-pyran-2-yl ester,
 polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl
 2-methyl-2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-
 one (9CI) (CA INDEX NAME)

CM 1

CRN 357341-11-8

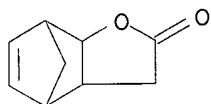
CMF C23 H34 O6



CM 2

CRN 357340-99-9

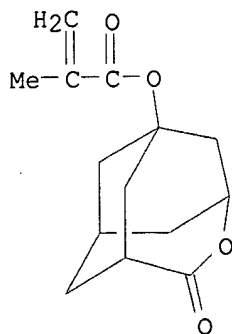
CMF C9 H10 O2



CM 3

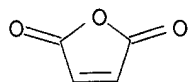
CRN 348596-87-2

CMF C14 H18 O4



CM 4

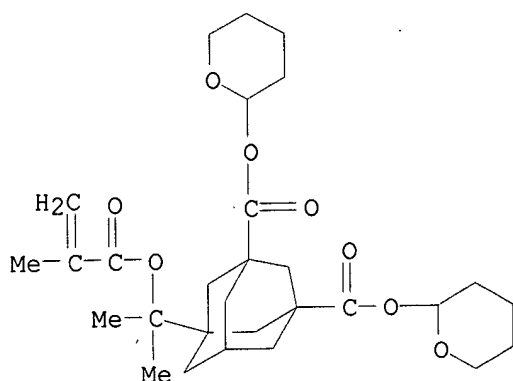
CRN 108-31-6
CMF C4 H2 O3



RN 357341-14-1 CAPLUS
CN Tricyclo[3.3.1.1^{3,7}]decane-1,3-dicarboxylic acid, 5-[1-methyl-1-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bis(tetrahydro-2H-pyran-2-yl) ester, polymer with 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-methyl-2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX NAME)

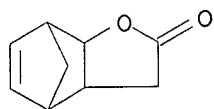
CM 1

CRN 357341-13-0
CMF C29 H42 O8



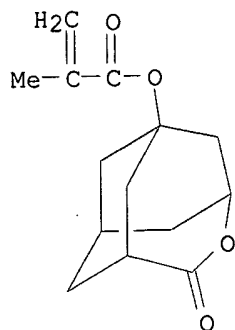
CM 2

CRN 357340-99-9
CMF C9 H10 O2



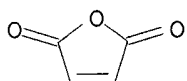
CM 3

CRN 348596-87-2
CMF C14 H18 O4



CM 4

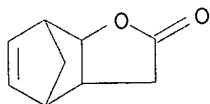
CRN 108-31-6
CMF C4 H2 O3



RN 357341-17-4 CAPLUS
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one
(9CI) (CA INDEX NAME)

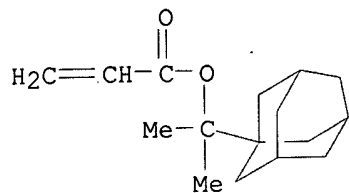
CM 1

CRN 357340-99-9
CMF C9 H10 O2



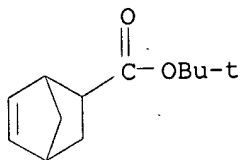
CM 2

CRN 300833-10-7
CMF C16 H24 O2



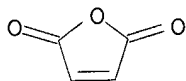
CM 3

CRN 154970-45-3
CMF C12 H18 O2



CM 4

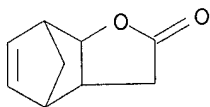
CRN 108-31-6
CMF C4 H2 O3



RN 357341-18-5 CAPLUS
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione,
1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate and
3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX
NAME)

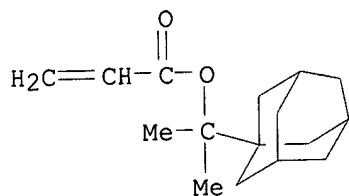
CM 1

CRN 357340-99-9
CMF C9 H10 O2



CM 2

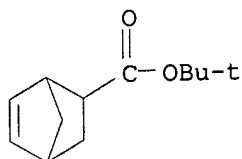
CRN 300833-10-7
CMF C16 H24 O2



CM 3

CRN 154970-45-3

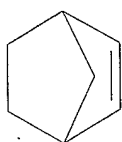
CMF C12 H18 O2



CM 4

CRN 498-66-8

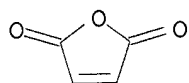
CMF C7 H10



CM 5

CRN 108-31-6

CMF C4 H2 O3

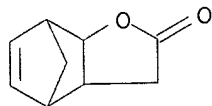


RN 357341-19-6 CAPLUS
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione,
1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl 2-propenoate and
3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX
NAME)

CM 1

CRN 357340-99-9

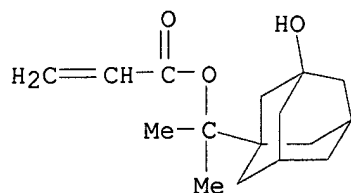
CMF C9 H10 O2



CM 2

CRN 262608-27-5

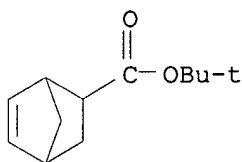
CMF C16 H24 O3



CM 3

CRN 154970-45-3

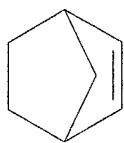
CMF C12 H18 O2



CM 4

CRN 498-66-8

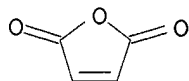
CMF C7 H10



CM 5

CRN 108-31-6

CMF C4 H2 O3



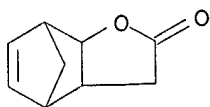
RN 357341-20-9 CAPLUS

CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-1-methylethyl ester, polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylethyl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 357340-99-9

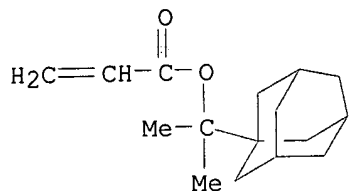
CMF C9 H10 O2



CM 2

CRN 300833-10-7

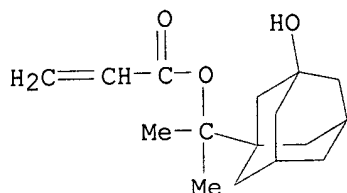
CMF C16 H24 O2



CM 3

CRN 262608-27-5

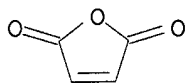
CMF C16 H24 O3



CM 4

CRN 108-31-6

CMF C4 H2 O3

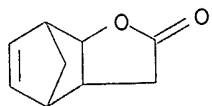


RN 357341-21-0 CAPLUS
 CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-1-methylethyl
 ester, polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione,
 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylethyl 2-propenoate and
 3a,4,7,7a-tetrahydro-4,7-methanobenzofuran-2(3H)-one (9CI) (CA INDEX
 NAME)

CM 1

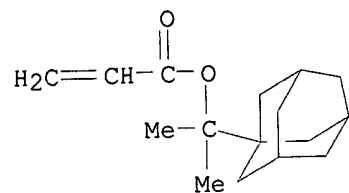
CRN 357340-99-9

CMF C9 H10 O2



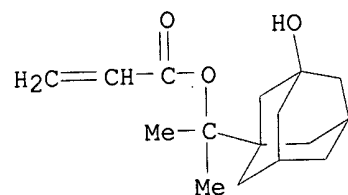
CM 2

CRN 300833-10-7
CMF C16 H24 O2



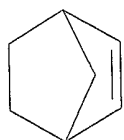
CM 3

CRN 262608-27-5
CMF C16 H24 O3



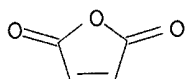
CM 4

CRN 498-66-8
CMF C7 H10



CM 5

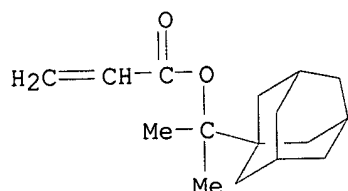
CRN 108-31-6
CMF C4 H2 O3



RN 357341-22-1 CAPLUS
 CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

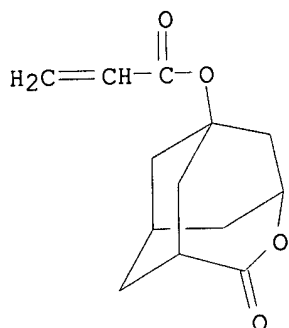
CM 1

CRN 300833-10-7
 CMF C16 H24 O2



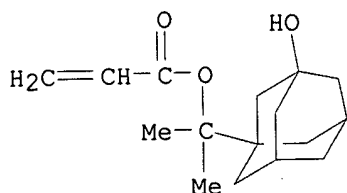
CM 2

CRN 265999-35-7
 CMF C13 H16 O4



CM 3

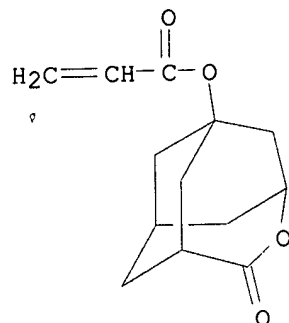
CRN 262608-27-5
 CMF C16 H24 O3



RN 357341-23-2 CAPLUS
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

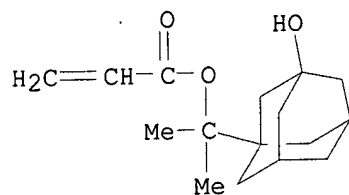
CM 1

CRN 265999-35-7
CMF C13 H16 O4



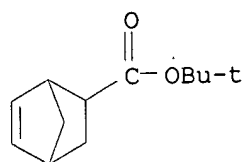
CM 2

CRN 262608-27-5
CMF C16 H24 O3



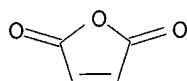
CM 3

CRN 154970-45-3
CMF C12 H18 O2



CM 4

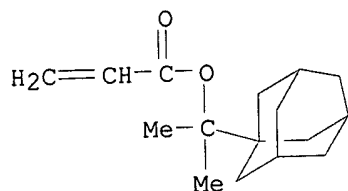
CRN 108-31-6
CMF C4 H2 O3



RN 357341-24-3 CAPLUS
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
 polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl
 2-propenoate and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate
 (9CI) (CA INDEX NAME)

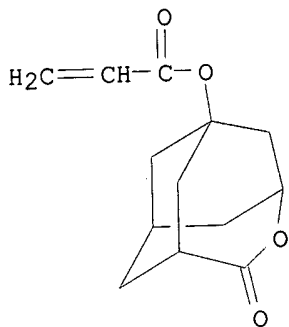
CM 1

CRN 300833-10-7
 CMF C16 H24 O2



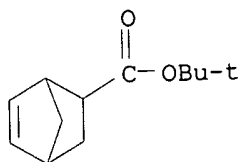
CM 2

CRN 265999-35-7
 CMF C13 H16 O4



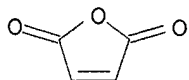
CM 3

CRN 154970-45-3
 CMF C12 H18 O2



CM 4

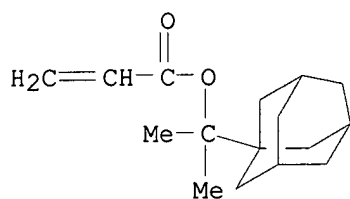
CRN 108-31-6
 CMF C4 H2 O3



RN 357341-25-4 CAPLUS
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
 polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl
 2-propenoate, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and
 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
 NAME)

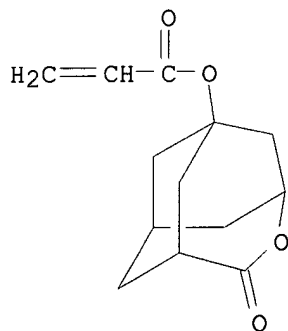
CM 1

CRN 300833-10-7
 CMF C16 H24 O2



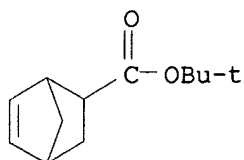
CM 2

CRN 265999-35-7
 CMF C13 H16 O4



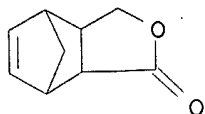
CM 3

CRN 154970-45-3
 CMF C12 H18 O2



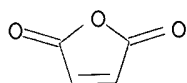
CM 4

CRN 85718-44-1
CMF C9 H10 O2



CM 5

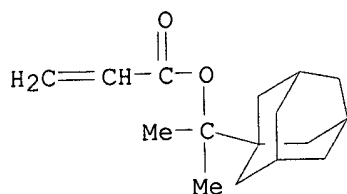
CRN 108-31-6
CMF C4 H2 O3



RN 357341-26-5 CAPLUS
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione,
1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate;
5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and
3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
NAME)

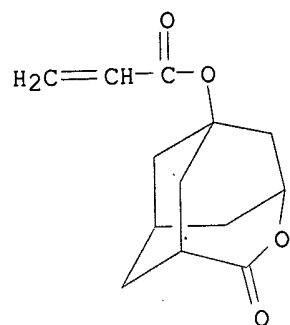
CM 1

CRN 300833-10-7
CMF C16 H24 O2



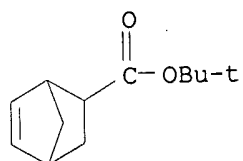
CM 2

CRN 265999-35-7
CMF C13 H16 O4



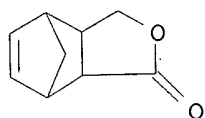
CM 3

CRN 154970-45-3
CMF C12 H18 O2



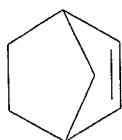
CM 4

CRN 85718-44-1
CMF C9 H10 O2



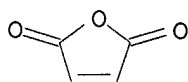
CM 5

CRN 498-66-8
CMF C7 H10



CM 6

CRN 108-31-6
CMF C4 H2 O3

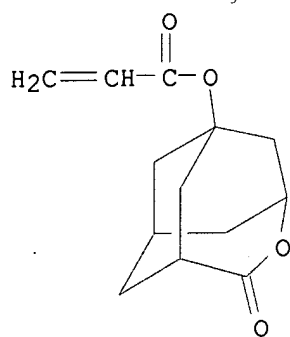


RN 357341-27-6 CAPLUS
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
 polymer with 2,5-furandione, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-
 methylethyl 2-propenoate, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl
 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
 (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7

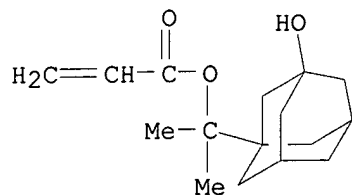
CMF C13 H16 O4



CM 2

CRN 262608-27-5

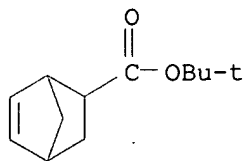
CMF C16 H24 O3



CM 3

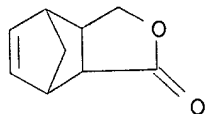
CRN 154970-45-3

CMF C12 H18 O2



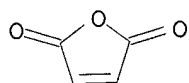
CM 4

CRN 85718-44-1
CMF C9 H10 O2



CM 5

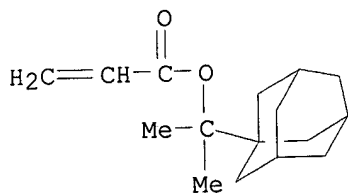
CRN 108-31-6
CMF C4 H2 O3



RN 357341-28-7 CAPLUS
CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

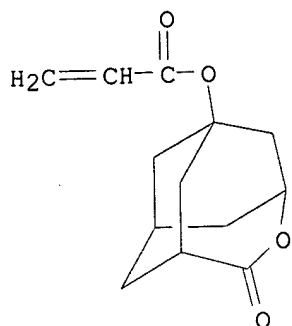
CM 1

CRN 300833-10-7
CMF C16 H24 O2



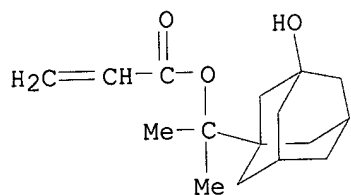
CM 2

CRN 265999-35-7
CMF C13 H16 O4



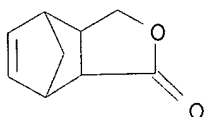
CM 3

CRN 262608-27-5
CMF C16 H24 O3



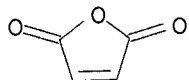
CM 4

CRN 85718-44-1
CMF C9 H10 O2



CM 5

CRN 108-31-6
CMF C4 H2 O3

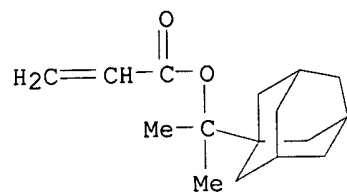


RN 357341-29-8 CAPLUS
CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 300833-10-7

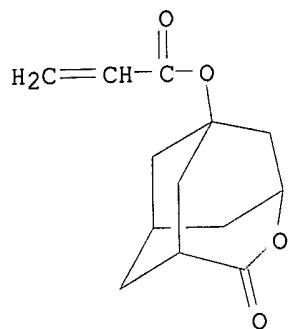
CMF C16 H24 O2



CM 2

CRN 265999-35-7

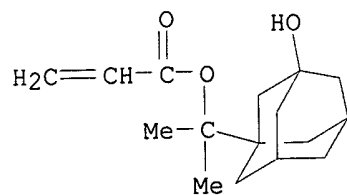
CMF C13 H16 O4



CM 3

CRN 262608-27-5

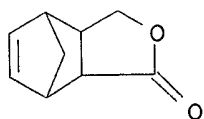
CMF C16 H24 O3

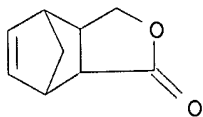


CM 4

CRN 85718-44-1

CMF C9 H10 O2

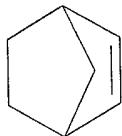




CM 5

CRN 498-66-8

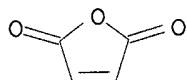
CMF C7 H10



CM 6

CRN 108-31-6

CMF C4 H2 O3

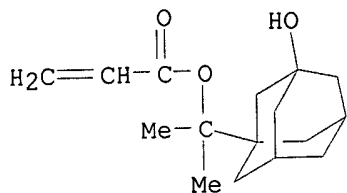


RN 357341-30-1 CAPLUS
 CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl
 ester, polymer with 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-
 methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 262608-27-5

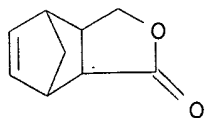
CMF C16 H24 O3

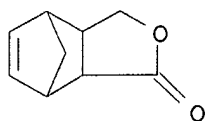


CM 2

CRN 85718-44-1

CMF C9 H10 O2

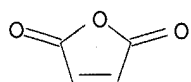




CM 3

CRN 108-31-6

CMF C4 H2 O3



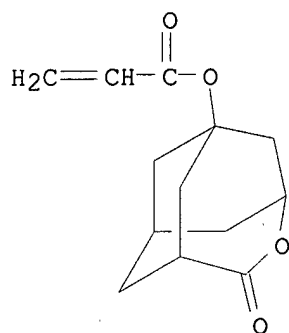
RN 357341-31-2 CAPLUS

CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione, 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7

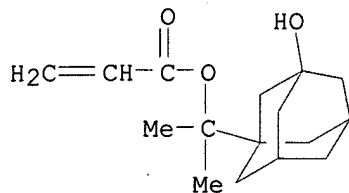
CMF C13 H16 O4



CM 2

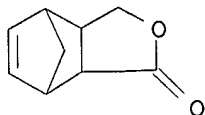
CRN 262608-27-5

CMF C16 H24 O3



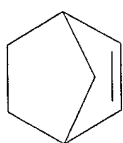
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CRN 85718-44-1
CMF C9 H10 O2



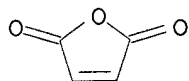
CM 4

CRN 498-66-8
CMF C7 H10



CM 5

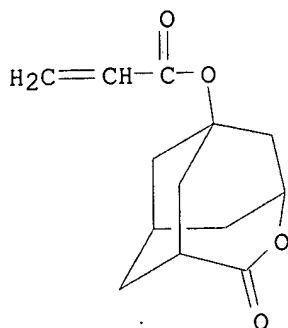
CRN 108-31-6
CMF C4 H2 O3

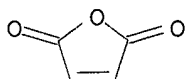


RN 357341-32-3 CAPLUS
CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione and 5-oxo-4-oxatricyclo[4.3.1.1^{3,8}]undec-1-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 265999-35-7
CMF C13 H16 O4





L10 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:582183 CAPLUS

DOCUMENT NUMBER: 135:160158

TITLE: Polymeric compound for photoresist and resin composition for photoresist

INVENTOR(S): Funaki, Yoshinori; Tsutsumi, Kiyoharu; Takaragi, Akira

PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 120 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

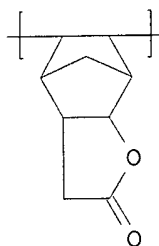
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001057597	A1	20010809	WO 2001-JP515	20010126
W: KR, US				
RW: DE, FR, GB				
JP 2001215703	A2	20010810	JP 2000-24527	20000201
EP 1172694	A1	20020116	EP 2001-949041	20010126
R: DE, FR, GB				
PRIORITY APPLN. INFO.:			JP 2000-24527	A 20000201
			WO 2001-JP515	W 20010126

GI



I

AB The invention relates to a polymeric compd. for photoresists which comprises monomer units represented by formula I; and a resin compn. for photoresists which comprises the polymeric compd. and a photo-acid generator. The compn., which contains 3-(hydroxymethyl)-2-Norbornanecarboxylic acid .gamma.-lactone based repeating unit, has high adhesion to substrates and can precisely form a fine pattern.

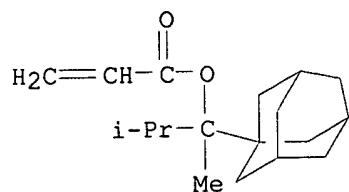
IT 251564-60-0 262608-27-5

RL: RCT (Reactant)

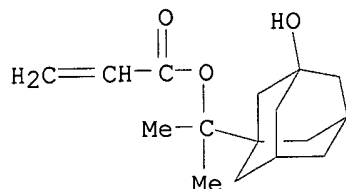
(polymeric compd. for photoresist and resin compn. for photoresist)

RN 251564-60-0 CAPLUS

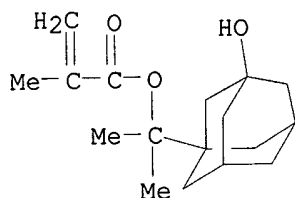
CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester (9CI) (CA INDEX NAME)



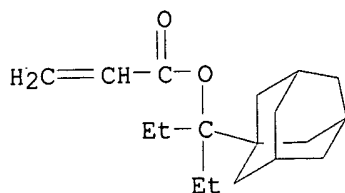
RN 262608-27-5 CAPLUS
 CN 2-Propenoic acid, 1-(3-hydroxytricyclo[3.3.1.3,7]dec-1-yl)-1-methylethyl ester (9CI) (CA INDEX NAME)



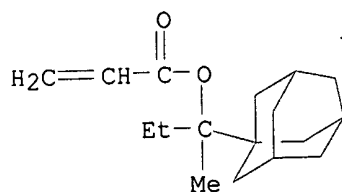
IT 324761-49-1P 325991-23-9P 325991-25-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (polymeric compd. for photoresist and resin compn. for photoresist)
 RN 324761-49-1 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 1-(3-hydroxytricyclo[3.3.1.3,7]dec-1-yl)-1-methylethyl ester (9CI) (CA INDEX NAME)



RN 325991-23-9 CAPLUS
 CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.3,7]dec-1-ylpropyl ester (9CI)
 (CA INDEX NAME)



RN 325991-25-1 CAPLUS
 CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.3,7]dec-1-ylpropyl ester (9CI) (CA INDEX NAME)



IT 353289-44-8P 353289-45-9P 353289-46-0P
 353289-48-2P 353289-53-9P 353289-54-0P
 353289-55-1P 353289-56-2P 353289-58-4P
 353289-63-1P 353289-65-3P 353289-67-5P
 353289-69-7P 353289-71-1P 353289-75-5P
 353289-76-6P 353289-77-7P 353289-78-8P
 353289-79-9P 353289-82-4P 353289-83-5P
 353289-84-6P 353289-85-7P 353289-86-8P
 353289-88-0P 353289-96-0P 353290-07-0P
 353290-15-0P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymeric compd. for photoresist and resin compn. for photoresist)

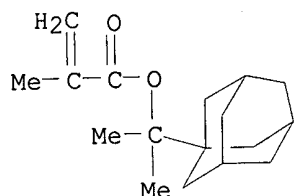
RN 353289-44-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-methyl-1-tricyclo[3.3.1.1.3]dec-1-ylethyl ester, polymer with 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 279218-76-7

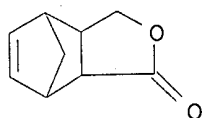
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CM 2

CRN 85718-44-1

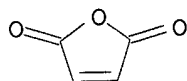
CMF C9 H10 O2



CM 3

CRN 108-31-6

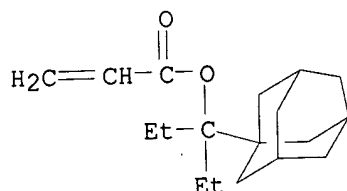
CMF C4 H2 O3



RN 353289-45-9 CAPLUS
 CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
 polymer with 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-
 methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

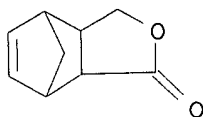
CM 1

CRN 325991-23-9
 CMF C18 H28 O2



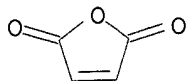
CM 2

CRN 85718-44-1
 CMF C9 H10 O2



CM 3

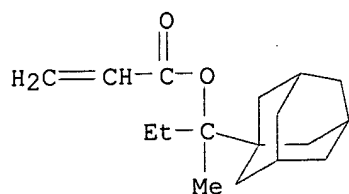
CRN 108-31-6
 CMF C4 H2 O3



RN 353289-46-0 CAPLUS
 CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
 polymer with 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-
 methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

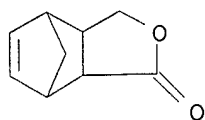
CM 1

CRN 325991-25-1
 CMF C17 H26 O2



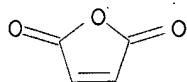
CM 2

CRN 85718-44-1
CMF C9 H10 O2



CM 3

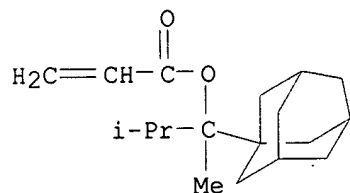
CRN 108-31-6
CMF C4 H2 O3



RN 353289-48-2 CAPLUS
CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.1.3]dec-1-ylpropyl ester,
polymer with 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-
methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

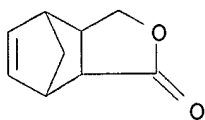
CM 1

CRN 251564-60-0
CMF C18 H28 O2



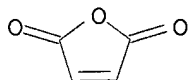
CM 2

CRN 85718-44-1
CMF C9 H10 O2



CM 3

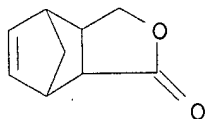
CRN 108-31-6
CMF C4 H2 O3



RN 353289-53-9 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

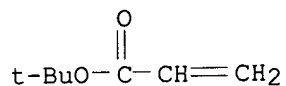
CM 1

CRN 85718-44-1
CMF C9 H10 O2



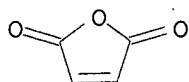
CM 2

CRN 1663-39-4
CMF C7 H12 O2



CM 3

CRN 108-31-6
CMF C4 H2 O3



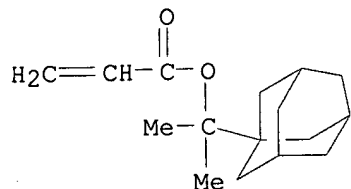
RN 353289-54-0 CAPLUS
CN 2-Propenoic acid, 3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one

(9CI) (CA INDEX NAME)

CM 1

CRN 300833-10-7

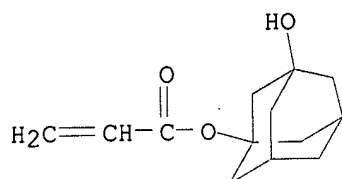
CMF C16 H24 O2



CM 2

CRN 216581-76-9

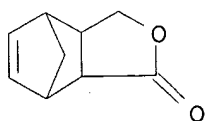
CMF C13 H18 O3



CM 3

CRN 85718-44-1

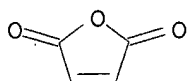
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3



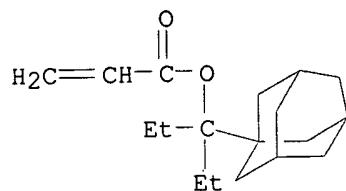
RN 353289-55-1 CAPLUS

CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1.3]dec-1-ylpropyl ester, polymer with 2,5-furandione, 3-hydroxytricyclo[3.3.1.1.3]dec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 325991-23-9

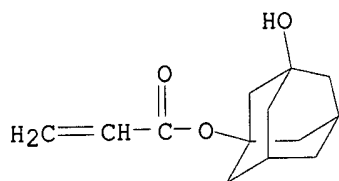
CMF C18 H28 O2



CM 2

CRN 216581-76-9

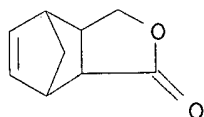
CMF C13 H18 O3



CM 3

CRN 85718-44-1

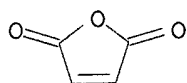
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3



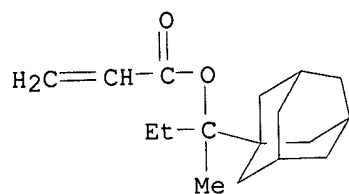
RN 353289-56-2 CAPLUS

CN 2-Propenoic acid, 3-hydroxytricyclo[3.3.1.1.3]dec-1-yl ester, polymer
with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1.3]dec-1-ylpropyl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
(9CI) (CA INDEX NAME)

CM 1

CRN 325991-25-1

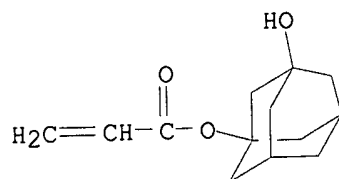
CMF C17 H26 O2



CM 2

CRN 216581-76-9

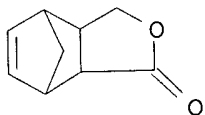
CMF C13 H18 O3



CM 3

CRN 85718-44-1

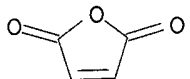
CMF C9 H10 O2



CM 4

CRN 108-31-6

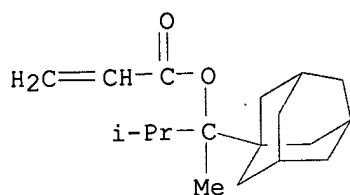
CMF C4 H2 O3



RN 353289-58-4 CAPLUS
CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 2,5-furandione, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
(9CI) (CA INDEX NAME)

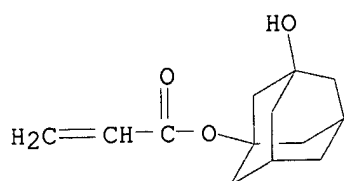
CM 1

CRN 251564-60-0
CMF C18 H28 O2



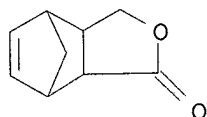
CM 2

CRN 216581-76-9
CMF C13 H18 O3



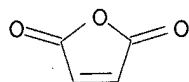
CM 3

CRN 85718-44-1
CMF C9 H10 O2



CM 4

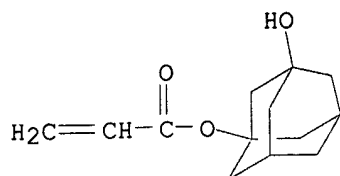
CRN 108-31-6
CMF C4 H2 O3



RN 353289-63-1 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione, 3-hydroxytricyclo[3.3.1.1.3,7]dec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

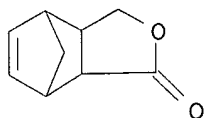
CM 1

CRN 216581-76-9
CMF C13 H18 O3



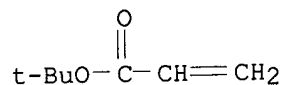
CM 2

CRN 85718-44-1
CMF C9 H10 O2



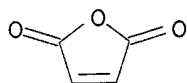
CM 3

CRN 1663-39-4
CMF C7 H12 O2



CM 4

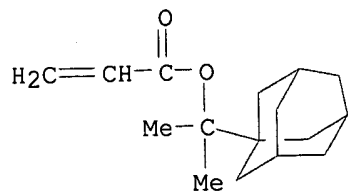
CRN 108-31-6
CMF C4 H2 O3



RN 353289-65-3 CAPLUS
CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl ester, polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylethyl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

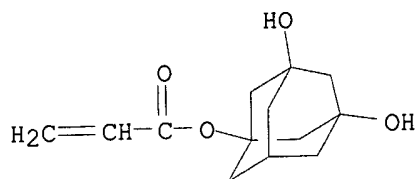
CRN 300833-10-7
CMF C16 H24 O2



CM 2

CRN 216581-85-0

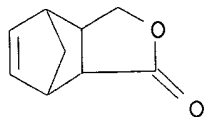
CMF C13 H18 O4



CM 3

CRN 85718-44-1

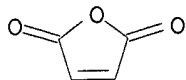
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3

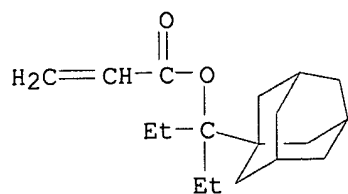


RN 353289-67-5 CAPLUS
 CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl ester, polymer
 with 1-ethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl 2-propenoate,
 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
 (9CI) (CA INDEX NAME)

CM 1

CRN 325991-23-9

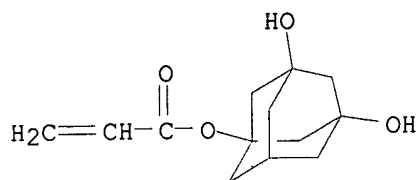
CMF C18 H28 O2



CM 2

CRN 216581-85-0

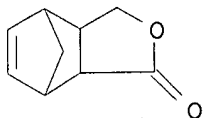
CMF C13 H18 O4



CM 3

CRN 85718-44-1

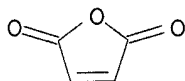
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3



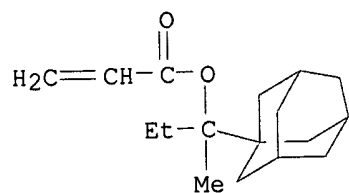
RN 353289-69-7 CAPLUS

CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 2,5-furandione, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 325991-25-1

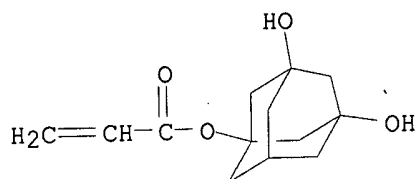
CMF C17 H26 O2



CM 2

CRN 216581-85-0

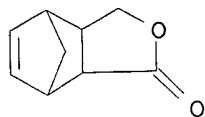
CMF C13 H18 O4



CM 3

CRN 85718-44-1

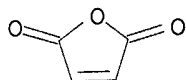
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3

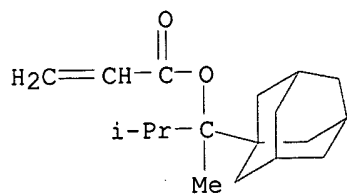


RN 353289-71-1 CAPLUS
CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1.3,7]dec-1-yl ester, polymer with 1,2-dimethyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylpropyl 2-propenoate, 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 251564-60-0

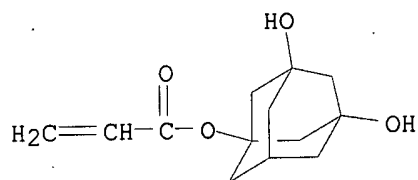
CMF C18 H28 O2



CM 2

CRN 216581-85-0

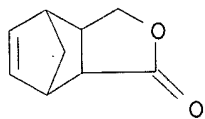
CMF C13 H18 O4



CM 3

CRN 85718-44-1

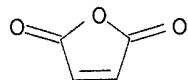
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3

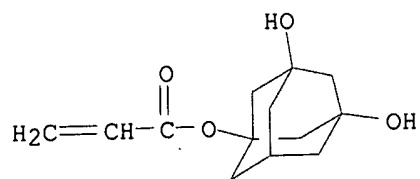


RN 353289-75-5 CAPLUS
 CN 2-Propenoic acid, 3,5-dihydroxytricyclo[3.3.1.1.3⁷]dec-1-yl ester, polymer
 with 1,1-dimethylethyl 2-propenoate, 2,5-furandione and
 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
 NAME)

CM 1

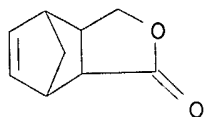
CRN 216581-85-0

CMF C13 H18 O4



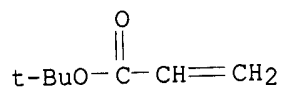
CM 2

CRN 85718-44-1
CMF C9 H10 O2



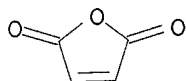
CM 3

CRN 1663-39-4
CMF C7 H12 O2



CM 4

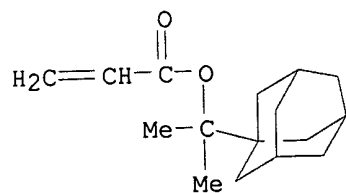
CRN 108-31-6
CMF C4 H2 O3



RN 353289-76-6 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylethyl ester,
polymer with 2,5-furandione, 4-oxotricyclo[3.3.1.13,7]dec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
(9CI) (CA INDEX NAME)

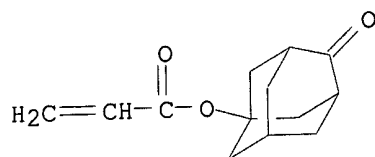
CM 1

CRN 300833-10-7
CMF C16 H24 O2



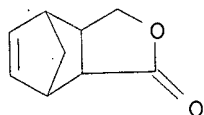
CM 2

CRN 216582-09-1
CMF C13 H16 O3



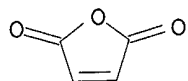
CM 3

CRN 85718-44-1
CMF C9 H10 O2



CM 4

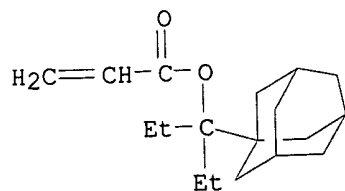
CRN 108-31-6
CMF C4 H2 O3



RN 353289-77-7 CAPLUS
CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 2,5-furandione, 4-oxotricyclo[3.3.1.13,7]dec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
(9CI) (CA INDEX NAME)

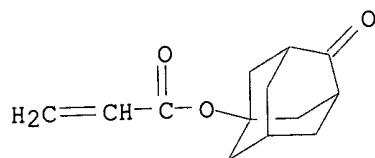
CM 1

CRN 325991-23-9
CMF C18 H28 O2



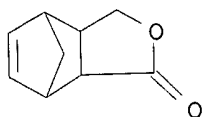
CM 2

CRN 216582-09-1
CMF C13 H16 O3



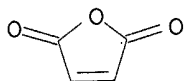
CM 3

CRN 85718-44-1
CMF C9 H10 O2



CM 4

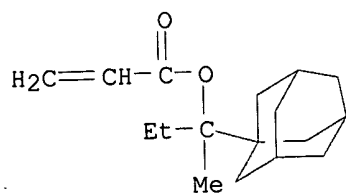
CRN 108-31-6
CMF C4 H2 O3



RN 353289-78-8 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 2,5-furandione, 4-oxotricyclo[3.3.1.13,7]dec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
(9CI) (CA INDEX NAME)

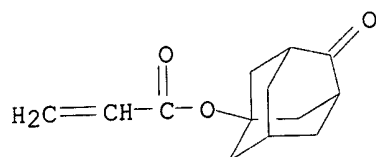
CM 1

CRN 325991-25-1
CMF C17 H26 O2



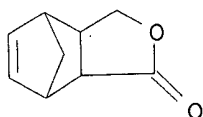
CM 2

CRN 216582-09-1
CMF C13 H16 O3



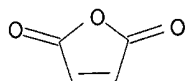
CM 3

CRN 85718-44-1
CMF C9 H10 O2



CM 4

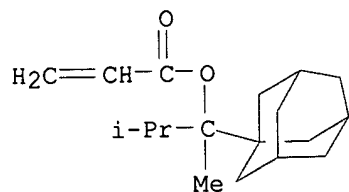
CRN 108-31-6
CMF C4 H2 O3



RN 353289-79-9 CAPLUS
CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.13,7]dec-1-ylpropyl ester,
polymer with 2,5-furandione, 4-oxotricyclo[3.3.1.13,7]dec-1-yl
2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one
(9CI) (CA INDEX NAME)

CM 1

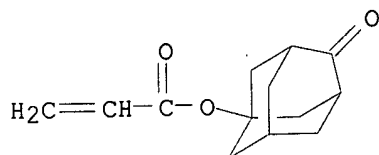
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CMF C18 H28 O2



CM 2

CRN 216582-09-1

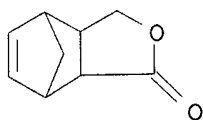
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CM 3

CRN 85718-44-1

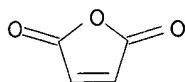
CMF C9 H10 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3



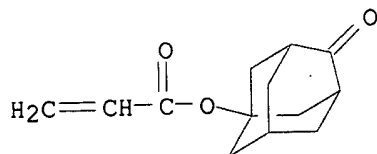
RN 353289-82-4 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione, 4-oxotricyclo[3.3.1.1^{3,7}]dec-1-yl 2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

CRN 216582-09-1

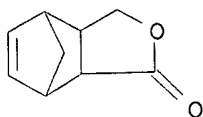
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CM 2

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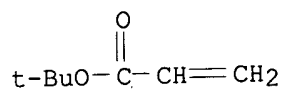
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CM 3

CRN 1663-39-4

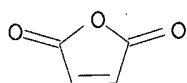
CMF C7 H12 O2



CM 4

CRN 108-31-6

CMF C4 H2 O3

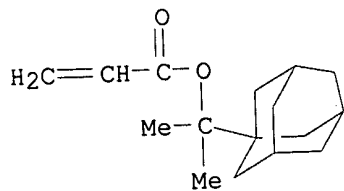


RN 353289-83-5 CAPLUS
 CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylethyl ester,
 polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione and
 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
 NAME)

CM 1

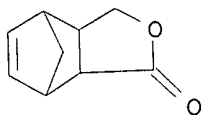
CRN 300833-10-7

CMF C16 H24 O2



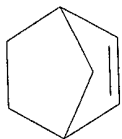
CM 2

CRN 85718-44-1
CMF C9 H10 O2



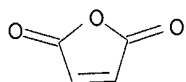
CM 3

CRN 498-66-8
CMF C7 H10



CM 4

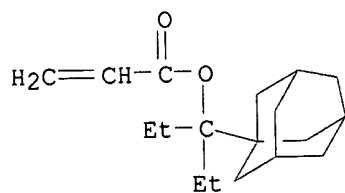
CRN 108-31-6
CMF C4 H2 O3



RN 353289-84-6 CAPLUS
CN 2-Propenoic acid, 1-ethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione and
3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
NAME)

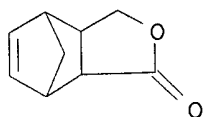
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CRN 325991-23-9
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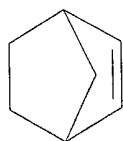
CM 2

CRN 85718-44-1
CMF C9 H10 O2



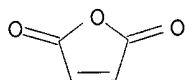
CM 3

CRN 498-66-8
CMF C7 H10



CM 4

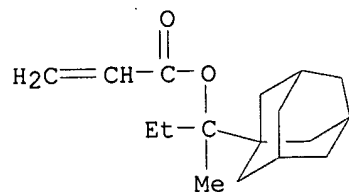
CRN 108-31-6
CMF C4 H2 O3



RN 353289-85-7 CAPLUS
CN 2-Propenoic acid, 1-methyl-1-tricyclo[3.3.1.1.3,7]dec-1-ylpropyl ester,
polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione and
3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
NAME)

CM 1

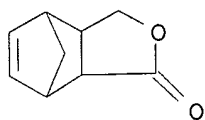
CRN 325991-25-1
CMF C17 H26 O2



CM 2

CRN 85718-44-1

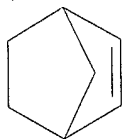
CMF C9 H10 O2



CM 3

CRN 498-66-8

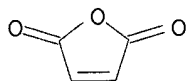
CMF C7 H10



CM 4

CRN 108-31-6

CMF C4 H2 O3

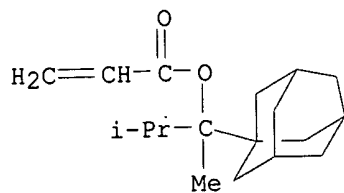


RN 353289-86-8 CAPLUS
 CN 2-Propenoic acid, 1,2-dimethyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylpropyl ester,
 polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione and
 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX
 NAME)

CM 1

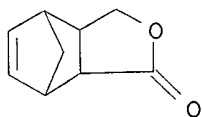
CRN 251564-60-0

CMF C18 H28 O2



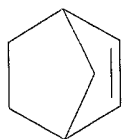
CM 2

CRN 85718-44-1
CMF C9 H10 O2



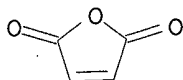
CM 3

CRN 498-66-8
CMF C7 H10



CM 4

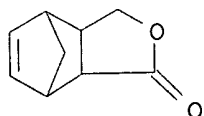
CRN 108-31-6
CMF C4 H2 O3

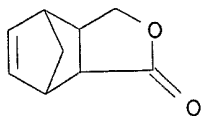


RN 353289-88-0 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with
bicyclo[2.2.1]hept-2-ene, 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-
methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

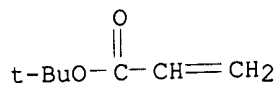
CRN 85718-44-1
CMF C9 H10 O2





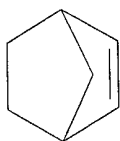
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CRN 1663-39-4
CMF C7 H12 O2



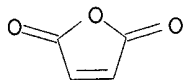
CM 3

CRN 498-66-8
CMF C7 H10



CM 4

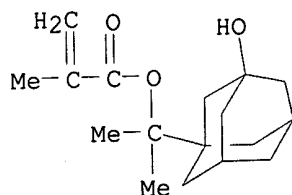
CRN 108-31-6
CMF C4 H2 O3

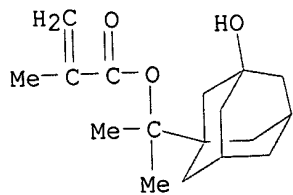


RN 353289-96-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl ester, polymer with 2,5-furandione, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl 2-methyl-2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

CM 1

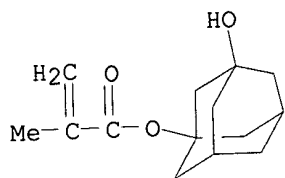
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CMF C17 H26 O3





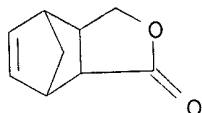
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CRN 115372-36-6
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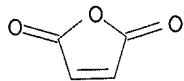
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CRN 85718-44-1
CMF C9 H10 O2



CM 4

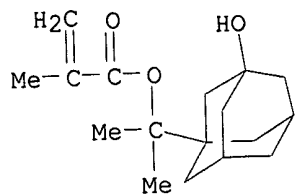
CRN 108-31-6
CMF C4 H2 O3



RN 353290-07-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-1-methylethyl ester, polymer with 2,5-furandione, 4-oxotricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

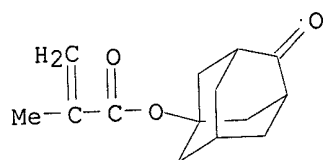
CM 1

CRN 324761-49-1
CMF C17 H26 O3



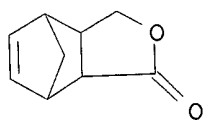
CM 2

CRN 305379-04-8
CMF C14 H18 O3



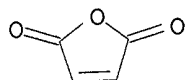
CM 3

CRN 85718-44-1
CMF C9 H10 O2



CM 4

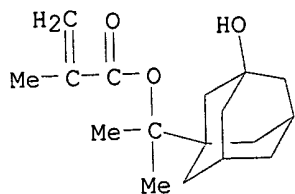
CRN 108-31-6
CMF C4 H2 O3



RN 353290-15-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1-(3-hydroxytricyclo[3.3.1.1^{3,7}]dec-1-yl)-1-methylethyl ester, polymer with bicyclo[2.2.1]hept-2-ene, 2,5-furandione and 3a,4,7,7a-tetrahydro-4,7-methanoisobenzofuran-1(3H)-one (9CI) (CA INDEX NAME)

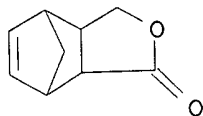
CM 1

CRN 324761-49-1
CMF C17 H26 O3



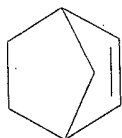
CM 2

CRN 85718-44-1
CMF C9 H10 O2



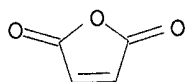
CM 3

CRN 498-66-8
CMF C7 H10



CM 4

CRN 108-31-6
CMF C4 H2 O3



REFERENCE COUNT:

19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:280501 CAPLUS

DOCUMENT NUMBER:

~~134~~:318679

TITLE:

Radiation-sensitive chemically amplified resist resin
composition containing alicyclic copolymer having
tertiary butyl acrylate repeating unit

INVENTOR(S):

Doki, Katsuji; Murata, Kiyoshi; Kajita, Toru;
Shimokawa, Tsutomu

PATENT ASSIGNEE(S):

JSR Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 21 pp.

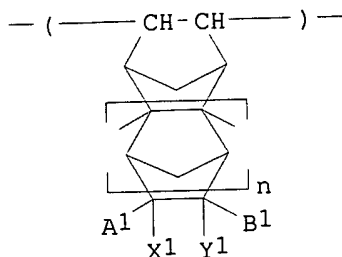
DOCUMENT TYPE:

CODEN: JKXXAF
Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2001109158 A2 20010420 JP 1999-291507 19991013

GI



I

AB The title compn. contains a radiation-sensitive acid-generator and an alicyclic copolymer resin having repeating unit: I (A1, B1 = H, C1-4 alkyl; X1, Y1 = H, mono-valent polar group contg. N or O; n = 1, 2); derived from maleic anhydride; and [-C(R1)(COO-tert-But)-CH2-] (R1 = H, CH3). The compn., which contains the alicyclic copolymer, provides the excellence in exposure and storageability and provides the photoresist of the good pattern profile, the high dry-etching resistance, and the good contact with a substrate.

IT 335129-27-6P 335129-29-8P

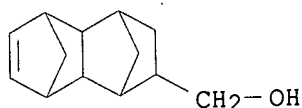
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (alicyclic copolymer in radiation-sensitive chem. amplified resist resin compn.)

RN 335129-27-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with 2,5-furandione and 1,2,3,4,4a,5,8,8a-octahydro-1,4:5,8-dimethanonaphthalene-2-methanol (9CI) (CA INDEX NAME)

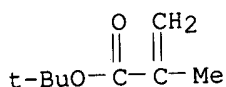
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CRN 7329-04-6
 CMF C13 H18 O



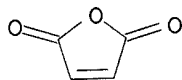
CM 2

CRN 585-07-9
 CMF C8 H14 O2



CM 3

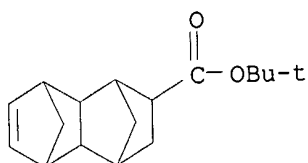
CRN 108-31-6
CMF C4 H2 O3



RN 335129-29-8 CAPLUS
CN 1,4:5,8-Dimethanonaphthalene-2-carboxylic acid, 1,2,3,4,4a,5,8,8a-octahydro-, 1,1-dimethylethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2,5-furandione and 1,2,3,4,4a,5,8,8a-octahydro-1,4:5,8-dimethanonaphthalen-2-ol (9CI) (CA INDEX NAME)

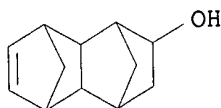
CM 1

CRN 195057-79-5
CMF C17 H24 O2



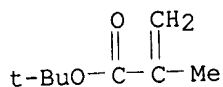
CM 2

CRN 7388-87-6
CMF C12 H16 O



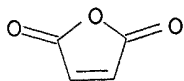
CM 3

CRN 585-07-9
CMF C8 H14 O2



CM 4

CRN 108-31-6
CMF C4 H2 O3



L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:210133 CAPLUS

DOCUMENT NUMBER: 134:245236

TITLE: Photopolymerizable composition and chemical amplification-type photoresist using it

INVENTOR(S): Chung, Dong Hang; Choi, Sang Joon; Lee, Shi Hung; Lee, Sook

PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

3/23/01

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001075285	A2	20010323	JP 2000-231006	20000731
			KR 1999-31060	A 19990729

PRIORITY APPLN. INFO.:

AB The photosensitive polymer (wt. av. mol. wt. 3000-100,000) is a copolymer of norbornene ester substituted with C1-12 aliph. alc. and maleic acid anhydride. The polymer may have a norbornene deriv. and an (meth)acrylic acid (ester) as other monomers. The chem. amplification resist comprises the polymer and 1-15 wt.% (based on the polymer) of a photoacid generator. The compn. shows good adhesion with the substrate, wettability with the developer, and good etching resistance.

IT **329955-98-8P 329956-00-5P 329956-04-9P**

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(photoresist compn. contg. polymer from norbornene ester and maleic anhydride and photoacid generator)

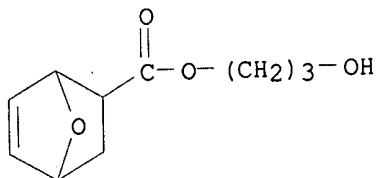
RN 329955-98-8 CAPLUS

CN 7-Oxabicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 3-hydroxypropyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 256490-50-3

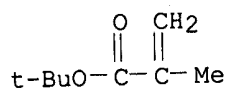
CMF C10 H14 O4



CM 2

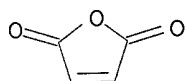
CRN 585-07-9

CMF C8 H14 O2



CM 3

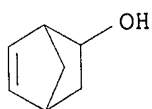
CRN 108-31-6
CMF C4 H2 O3



RN 329956-00-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with
bicyclo[2.2.1]hept-5-en-2-ol and 2,5-furandione (9CI) (CA INDEX NAME)

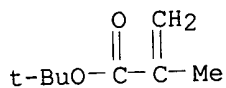
CM 1

CRN 13080-90-5
CMF C7 H10 O



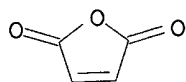
CM 2

CRN 585-07-9
CMF C8 H14 O2



CM 3

CRN 108-31-6
CMF C4 H2 O3

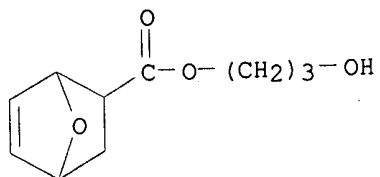


RN 329956-04-9 CAPLUS
CN 7-Oxabicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 3-hydroxypropyl ester,
polymer with 1,1-dimethylethyl bicyclo[2.2.1]hept-5-ene-2-carboxylate,

1,1-dimethylethyl 2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

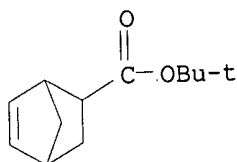
CM 1

CRN 256490-50-3
CMF C10 H14 O4



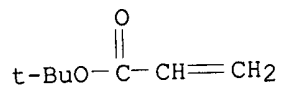
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CRN 154970-45-3
CMF C12 H18 O2



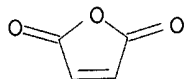
CM 3

CRN 1663-39-4
CMF C7 H12 O2



CM 4

CRN 108-31-6
CMF C4 H2 O3

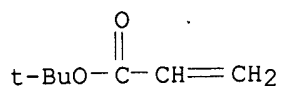


IT 1663-39-4, tert-Butyl acrylate

RL: RCT (Reactant)
(prepn. of Bu norbornene ester)

RN 1663-39-4 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:806330 CAPLUS

DOCUMENT NUMBER: 134:214822

TITLE: Dissolution properties of cycloolefin-maleic-anhydride-based resist resins

AUTHOR(S): Rushkin, Ilya L.; Houlihan, Francis M.; Kometani, Janet M.; Hutton, Richard S.; Nalamasu, Omkaram; Reichmanis, Elsa; Dimov, Ognian; Medina, Arturo N.; Varlemann, Ulrike; Gabor, A. H.; Sarrubi, T. R.; Bowden, M.

CORPORATE SOURCE: Lucent Technologies, Murray Hill, NJ, USA

SOURCE: Proc. SPIE-Int. Soc. Opt. Eng. (2000), 3999(Pt. 1, Advances in Resist Technology and Processing XVII), 214-219

CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Influence of different functional groups on dissoln. behavior of resist resins based on charge-transfer polymn. of cyclo-olefins with maleic anhydride was studied. CMe3tyl carboxylate moiety was used in all materials as an imaging group. Two approaches were identified for increase in the dissoln. rate of totally de-protected polymers (Rmax). First, the Rmax value can be modified by changing the total amt. of tert-butyl-protected and unprotected carboxylate moieties in the polymer. However, Rmax can be improved by introducing the base-hydrolyzable functionalities, such as a formate esters, into the polymer chain. Such polymers are stable to hydrolysis in hydrophobic matrix but undergo quick hydrolysis in hydrophilic film. For example, a polymer in which the cycloolefin moiety has a formate side group displayed dissoln. rate of .apprx.10,000 .ANG./s while an analogous polymer in which the cycloolefin moiety does not have a formate group showed a dissoln. rate of .apprx.500 .ANG./s.

IT 260448-02-0 328237-65-6 328237-67-8
328237-68-9 328237-69-0 328237-70-3

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(dissoln. properties of cycloolefin-maleic-anhydride-based resist resins)

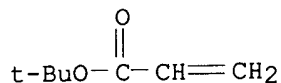
RN 260448-02-0 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with bicyclo[2.2.1]hept-2-ene and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

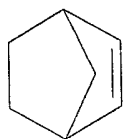
CRN 1663-39-4

CMF C7 H12 O2



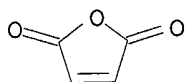
CM 2

CRN 498-66-8
CMF C7 H10



CM 3

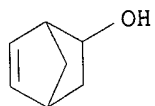
CRN 108-31-6
CMF C4 H2 O3



RN 328237-65-6 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with
bicyclo[2.2.1]hept-5-en-2-ol and 2,5-furandione (9CI) (CA INDEX NAME)

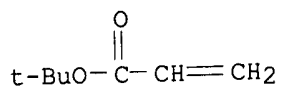
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CRN 13080-90-5
CMF C7 H10 O



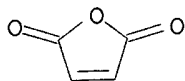
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CRN 1663-39-4
CMF C7 H12 O2



CM 3

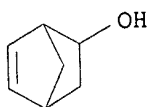
CRN 108-31-6
CMF C4 H2 O3



RN 328237-67-8 CAPLUS
CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with
bicyclo[2.2.1]hept-2-ene, bicyclo[2.2.1]hept-5-en-2-ol and 2,5-furandione
(9CI) (CA INDEX NAME)

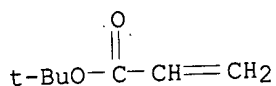
CM 1

CRN 13080-90-5
CMF C7 H10 O



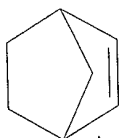
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CRN 1663-39-4
CMF C7 H12 O2



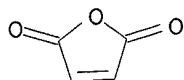
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CRN 498-66-8
CMF C7 H10



CM 4

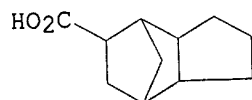
CRN 108-31-6
CMF C4 H2 O3



RN 328237-68-9 CAPLUS
CN 4,7-Methano-1H-indene-5-carboxylic acid, octahydro-, polymer with
1,1-dimethylethyl 2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

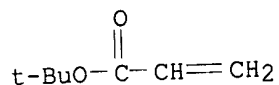
CM 1

CRN 85909-52-0
CMF C11 H16 O2



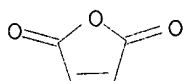
CM 2

CRN 1663-39-4
CMF C7 H12 O2



CM 3

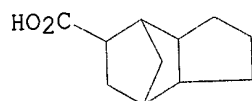
CRN 108-31-6
CMF C4 H2 O3



RN 328237-69-0 CAPLUS
CN 4,7-Methano-1H-indene-5-carboxylic acid, octahydro-, polymer with
1,1-dimethylethyl 2-propenoate, 2,5-furandione and 2-propenoic acid (9CI)
(CA INDEX NAME)

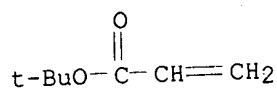
CM 1

CRN 85909-52-0
CMF C11 H16 O2



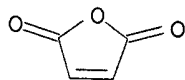
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CRN 1663-39-4
CMF C7 H12 O2



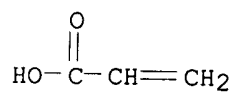
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

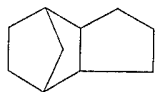
CRN 79-10-7
CMF C3 H4 O2



RN 328237-70-3 CAPLUS
CN 2-Propenoic acid, polymer with 1,1-dimethylethyl 2-propenoate,
2,5-furandione and octahydro-4,7-methano-1H-indene (9CI) (CA INDEX NAME)

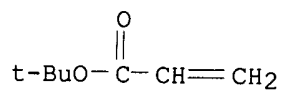
CM 1

CRN 6004-38-2
CMF C10 H16



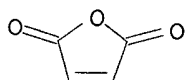
CM 2

CRN 1663-39-4
CMF C7 H12 O2



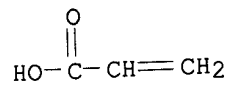
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4 .

CRN 79-10-7
CMF C3 H4 O2



REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:367047 HCAPLUS

DOCUMENT NUMBER: 133:18002

TITLE: Ester monomers, polymers, resist compositions and patterning process

INVENTOR(S): Kinsho, Takeshi; Nishi, Tsunehiro; Kurihara, Hideshi; Hasegawa, Koji; Watanabe, Takeru; Watanabe, Osamu; Nakashima, Mutsuo; Takeda, Takanobu; Hatakeyama, Jun

PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 65 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1004568	A2	20000531	EP 1999-308687	19991102
EP 1004568	A3	20010228		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000336121	A2	20001205	JP 1999-307148	19991028
KR 2000035130	A	20000626	KR 1999-47904	19991101
US 6312867	B1	20011106	US 1999-431139	19991101
PRIORITY APPLN. INFO.:		JP 1998-312533	A	19981102
		JP 1999-75355	A	19990319

AB An ester compd. having an exo-form 2-alkylbicyclo[2.2.1]heptan-2-yl group as the protective group is provided as well as a polymer comprising units of the ester compd. The polymer is used as a base resin to formulate a resist compn. having a higher sensitivity, resoln. and etching resistance than conventional resist compns. A polymer was prepd. from 8-ethyltricyclo[5.2.1.0^{2,6}]decan-8-yl methacrylate and 5-methyl-2-oxooxolan-5-yl methacrylate.

IT 195154-83-7P 271598-73-3P 271599-11-2P
271599-21-4P 271599-26-9P 271599-33-8P
271599-34-9P 271599-35-0P 271599-36-1P
271599-42-9P 271599-49-6P 271599-55-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(ester monomers, polymers, resist compns. and patterning process)

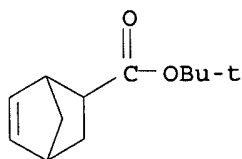
RN 195154-83-7 HCAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 154970-45-3

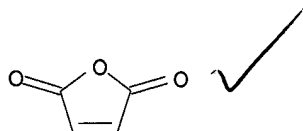
CMF C12 H18 O2



CM 2

CRN 108-31-6

CMF C4 H2 O3



RN 271598-73-3 HCAPLUS

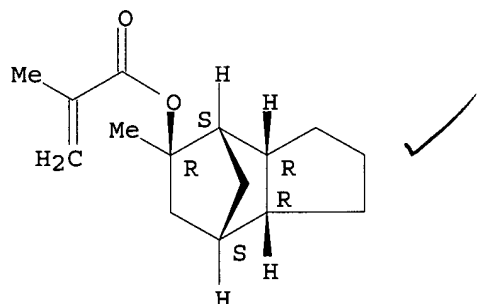
CN 2-Propenoic acid, 2-methyl-, (3aR,4S,5R,7S,7aR)-octahydro-5-methyl-4,7-methano-1H-inden-5-yl ester, rel-, polymer with tetrahydro-2-methyl-5-oxo-2-furanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 271598-67-5

CMF C15 H22 O2

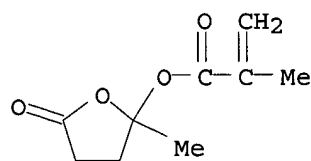
Relative stereochemistry.



CM 2

CRN 220196-47-4

CMF C9 H12 O4



RN 271599-11-2 HCAPLUS

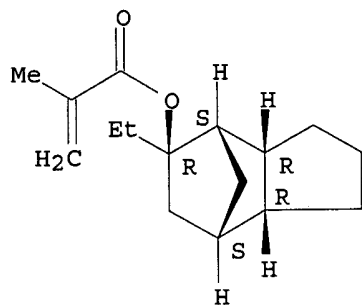
CN 2-Propenoic acid, 2-methyl-, (3aR,4S,5R,7S,7aR)-5-ethyloctahydro-4,7-methano-1H-inden-5-yl ester, rel-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and tetrahydro-2-methyl-5-oxo-2-furanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 271598-65-3

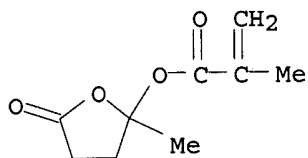
CMF C16 H24 O2

Relative stereochemistry.



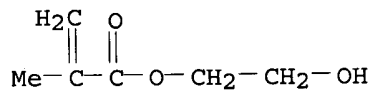
CM 2

CRN 220196-47-4
CMF C9 H12 O4



CM 3

CRN 868-77-9
CMF C6 H10 O3



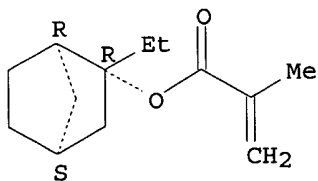
RN 271599-21-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with rel-(1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate and (2-oxo-1,3-dioxolan-4-yl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

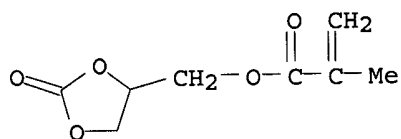
CRN 271598-68-6
CMF C13 H20 O2

Relative stereochemistry.



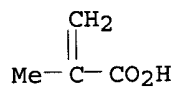
CM 2

CRN 13818-44-5
CMF C8 H10 O5



CM 3

CRN 79-41-4
CMF C4 H6 O2

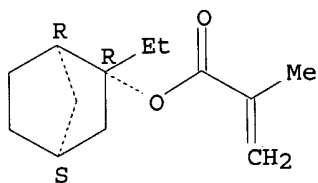


RN 271599-26-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, (1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl ester, rel-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and (2-oxo-1,3-dioxolan-4-yl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

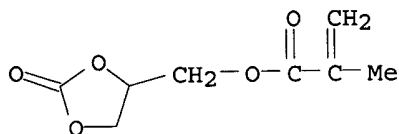
CRN 271598-68-6
CMF C13 H20 O2

Relative stereochemistry.



CM 2

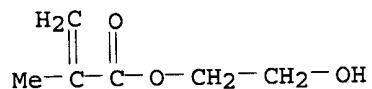
CRN 13818-44-5
CMF C8 H10 O5



CM 3

CRN 868-77-9

CMF C6 H10 O3



RN 271599-33-8 HCAPLUS

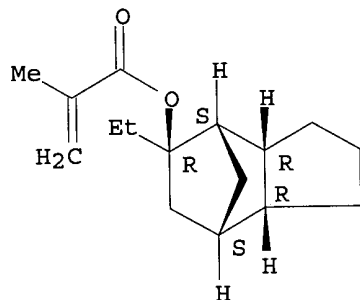
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with rel-(3aR,4S,5R,7S,7aR)-5-ethyloctahydro-4,7-methano-1H-inden-
5-yl 2-methyl-2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 271598-65-3

CMF C16 H24 O2

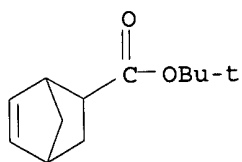
Relative stereochemistry.



CM 2

CRN 154970-45-3

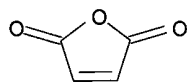
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



RN 271599-34-9 HCAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with 2,5-furandione and rel-(3aR,4S,5S,7S,7aR)-octahydro-5-(1-
methylethyl)-4,7-methano-1H-inden-5-yl 2-methyl-2-propenoate (9CI) (CA

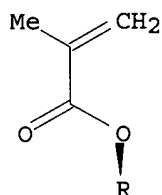
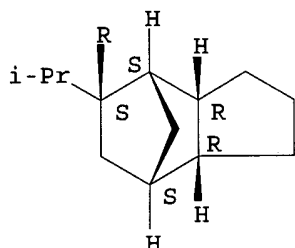
INDEX NAME)

CM 1

CRN 271598-66-4

CMF C17 H26 O2

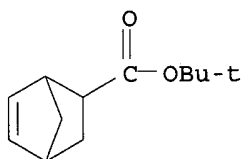
Relative stereochemistry.



CM 2

CRN 154970-45-3

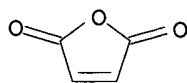
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



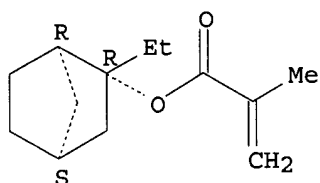
RN 271599-35-0 HCAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with rel-(1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl
2-methyl-2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

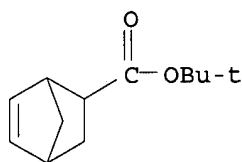
CRN 271598-68-6
CMF C13 H20 O2

Relative stereochemistry.



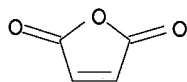
CM 2

CRN 154970-45-3
CMF C12 H18 O2



CM 3

CRN 108-31-6
CMF C4 H2 O3

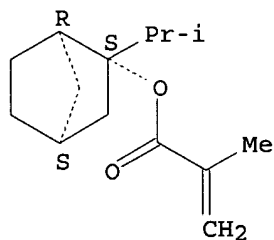


RN 271599-36-1 HCAPLUS
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with 2,5-furandione and rel-(1R,2S,4S)-2-(1-
methylethyl)bicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate (9CI) (CA INDEX
NAME)

CM 1

CRN 271598-69-7
CMF C14 H22 O2

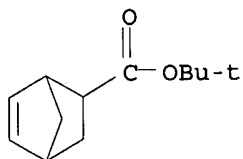
Relative stereochemistry.



CM 2

CRN 154970-45-3

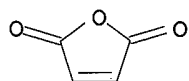
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



RN 271599-42-9 HCAPLUS

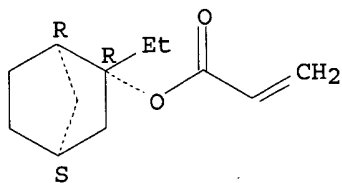
CN 2-Propenoic acid, (1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl ester, rel-, polymer with 4-ethenylphenol (9CI) (CA INDEX NAME)

CM 1

CRN 271598-70-0

CMF C12 H18 O2

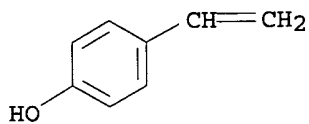
Relative stereochemistry.



CM 2

CRN 2628-17-3

CMF C8 H8 O



RN 271599-49-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (3aR,4S,5R,7S,7aR)-5-ethyloctahydro-4,7-methano-1H-inden-5-yl ester, rel-, polymer with 1,1-dimethylethyl 4-ethenylphenyl carbonate, 4-ethenylphenol and 2-(4-

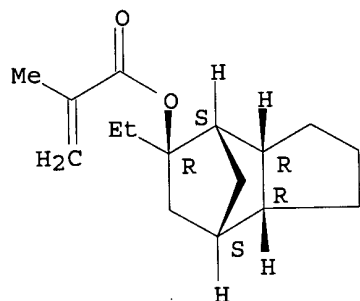
ethenylphenoxy) tetrahydro-2H-pyran (9CI) (CA INDEX NAME)

CM 1

CRN 271598-65-3

CMF C16 H24 O2

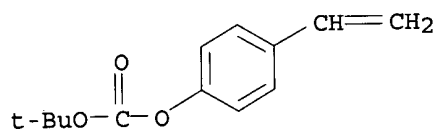
Relative stereochemistry.



CM 2

CRN 87188-51-0

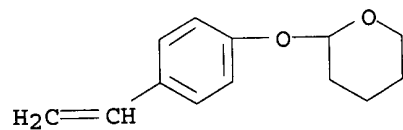
CMF C13 H16 O3



CM 3

CRN 65409-15-6

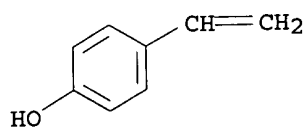
CMF C13 H16 O2



CM 4

CRN 2628-17-3

CMF C8 H8 O



RN 271599-55-4 HCAPLUS

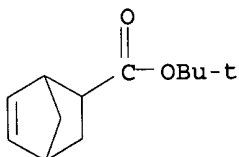
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,

polymer with 2,5-furandione and tricyclo[3.3.1.1^{3,7}]dec-1-yl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 154970-45-3

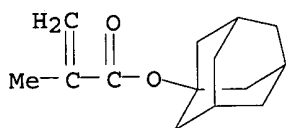
CMF C12 H18 O2



CM 2

CRN 16887-36-8

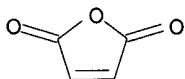
CMF C14 H20 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



L24 ANSWER 2 OF 2 USPATFULL

ACCESSION NUMBER: 2001:196771 USPATFULL

TITLE: Ester compounds, polymers, resist compositions and patterning process

INVENTOR(S): Kinsho, Takeshi, Nakakubiki-gun, Japan
Nishi, Tsunehiro, Nakakubiki-gun, Japan
Kurihara, Hideshi, Usui-gun, Japan
Hasegawa, Koji, Nakakubiki-gun, Japan
Watanabe, Takeru, Nakakubiki-gun, Japan
Watanabe, Osamu, Nakakubiki-gun, Japan
Nakashima, Mutsuo, Nakakubiki-gun, Japan
Takeda, Takanobu, Nakakubiki-gun, Japan
Hatakeyama, Jun, Nakakubiki-gun, Japan
PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6312867	B1	20011106
APPLICATION INFO.:	US 1999-431139		19991101 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1998-312533	19981102
	JP 1999-75355	19990319
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Ashton, Rosemary E.	
LEGAL REPRESENTATIVE:	Millen, White, Zelano & Branigan, P.C.	
NUMBER OF CLAIMS:	17	
EXEMPLARY CLAIM:	4	
LINE COUNT:	2117	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

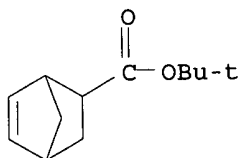
AB A novel ester compound having an exo-form 2-alkylbicyclo[2.2.1]heptan-2-yl group as the protective group is provided as well as a polymer comprising units of the ester compound. The polymer is used as a base resin to formulate a resist composition having a higher sensitivity, resolution and etching resistance than conventional resist compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 195154-83-7P 271598-73-3P 271599-11-2P
 271599-21-4P 271599-26-9P 271599-33-8P
 271599-34-9P 271599-35-0P 271599-36-1P
 271599-42-9P 271599-49-6P 271599-55-4P
 (ester monomers, polymers, resist compns. and patterning process)
 RN 195154-83-7 USPATFULL
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione (9CI) (CA INDEX NAME)

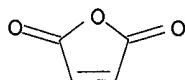
CM 1

CRN 154970-45-3
 CMF C12 H18 O2



CM 2

CRN 108-31-6
 CMF C4 H2 O3

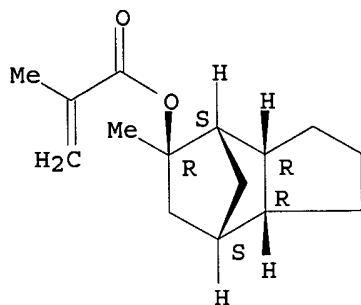


RN 271598-73-3 USPATFULL
 CN 2-Propenoic acid, 2-methyl-, (3aR,4S,5R,7S,7aR)-octahydro-5-methyl-4,7-methano-1H-inden-5-yl ester, rel-, polymer with tetrahydro-2-methyl-5-oxo-2-furanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

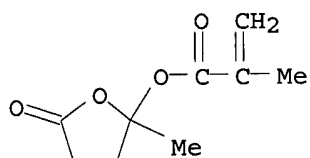
CRN 271598-67-5
 CMF C15 H22 O2

Relative stereochemistry.



CM 2

CRN 220196-47-4
CMF C9 H12 O4

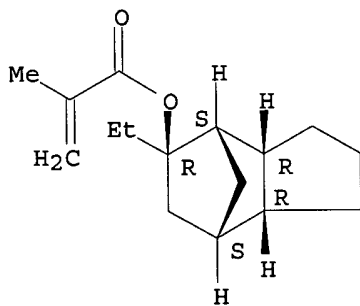


RN 271599-11-2 USPATFULL
CN 2-Propenoic acid, 2-methyl-, (3aR,4S,5R,7S,7aR)-5-ethyloctahydro-4,7-methano-1H-inden-5-yl ester, rel-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and tetrahydro-2-methyl-5-oxo-2-furanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

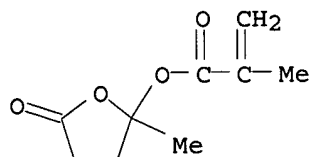
CRN 271598-65-3
CMF C16 H24 O2

Relative stereochemistry.



CM 2

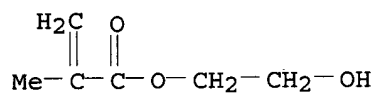
CRN 220196-47-4
CMF C9 H12 O4



CM 3

CRN 868-77-9

CMF C6 H10 O3



RN 271599-21-4 USPATFULL

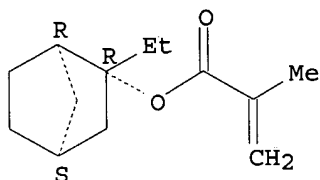
CN 2-Propenoic acid, 2-methyl-, polymer with rel-(1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate and (2-oxo-1,3-dioxolan-4-yl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 271598-68-6

CMF C13 H20 O2

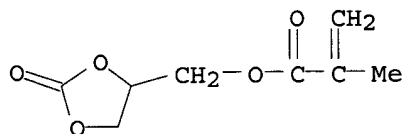
Relative stereochemistry.



CM 2

CRN 13818-44-5

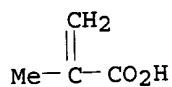
CMF C8 H10 O5



CM 3

CRN 79-41-4

CMF C4 H6 O2

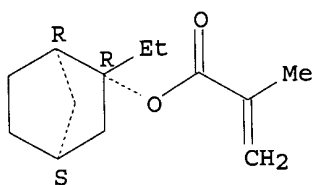


RN 271599-26-9 USPATFULL
 CN 2-Propenoic acid, 2-methyl-, (1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl ester, rel-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and (2-oxo-1,3-dioxolan-4-yl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

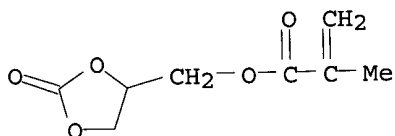
CRN 271598-68-6
 CMF C13 H20 O2

Relative stereochemistry.



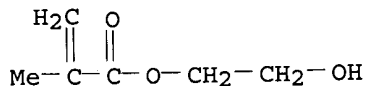
CM 2

CRN 13818-44-5
 CMF C8 H10 O5



CM 3

CRN 868-77-9
 CMF C6 H10 O3

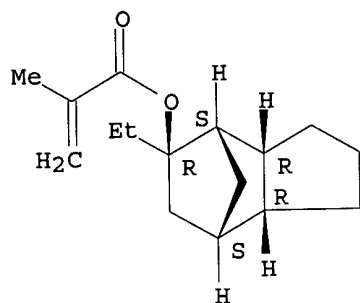


RN 271599-33-8 USPATFULL
 CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with rel- (3aR,4S,5R,7S,7aR)-5-ethyloctahydro-4,7-methano-1H-inden-5-yl 2-methyl-2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 271598-65-3
 CMF C16 H24 O2

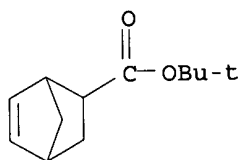
Relative stereochemistry.



CM 2

CRN 154970-45-3

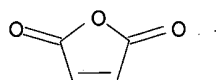
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



RN 271599-34-9 USPATFULL

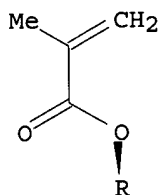
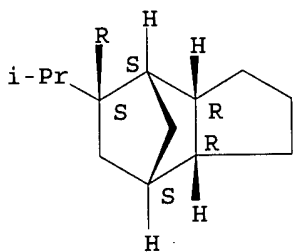
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione and rel-(3aR,4S,5S,7S,7aR)-octahydro-5-(1-methylethyl)-4,7-methano-1H-inden-5-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 271598-66-4

CMF C17 H26 O2

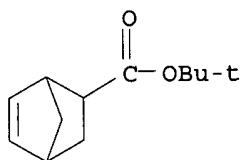
Relative stereochemistry.



CM 2

CRN 154970-45-3

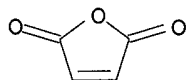
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



RN 271599-35-0 USPATFULL

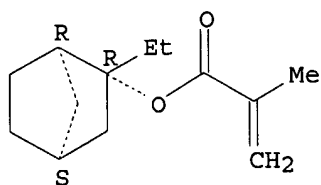
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with rel-(1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl
2-methyl-2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 271598-68-6

CMF C13 H20 O2

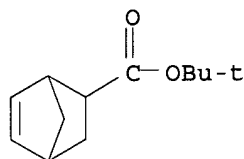
Relative stereochemistry.



CM 2

CRN 154970-45-3

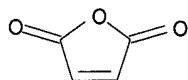
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



RN 271599-36-1 USPATFULL

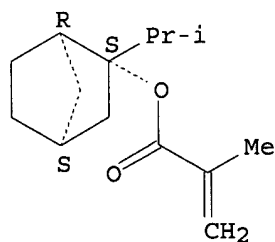
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester, polymer with 2,5-furandione and rel-(1R,2S,4S)-2-(1-methylethyl)bicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 271598-69-7

CMF C14 H22 O2

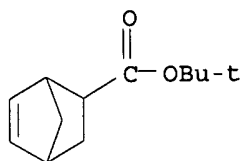
Relative stereochemistry.



CM 2

CRN 154970-45-3

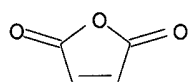
CMF C12 H18 O2



CM 3

CRN 108-31-6

CMF C4 H2 O3



RN 271599-42-9 USPATFULL

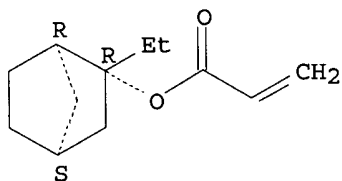
CN 2-Propenoic acid, (1R,2R,4S)-2-ethylbicyclo[2.2.1]hept-2-yl ester, rel-,
polymer with 4-ethenylphenol (9CI) (CA INDEX NAME)

CM 1

CRN 271598-70-0

CMF C12 H18 O2

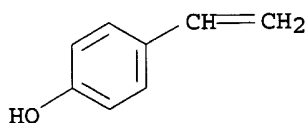
Relative stereochemistry.



CM 2

CRN 2628-17-3

CMF C8 H8 O



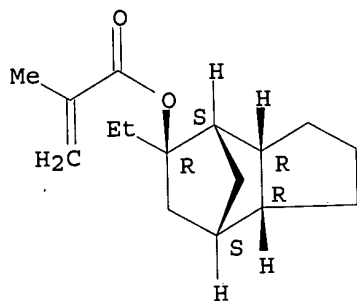
RN 271599-49-6 USPATFULL

CN 2-Propenoic acid, 2-methyl-, (3aR,4S,5R,7S,7aR)-5-ethyloctahydro-4,7-methano-1H-inden-5-yl ester, rel-, polymer with 1,1-dimethylethyl
4-ethenylphenyl carbonate, 4-ethenylphenol and 2-(4-ethenylphenoxy)tetrahydro-2H-pyran (9CI) (CA INDEX NAME)

CM 1

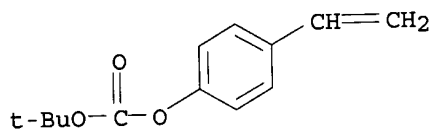
CRN 271598-65-3
CMF C16 H24 O2

Relative stereochemistry.



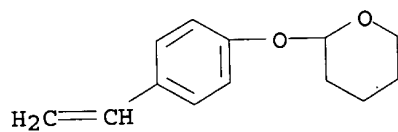
CM 2

CRN 87188-51-0
CMF C13 H16 O3



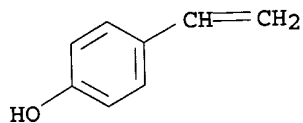
CM 3

CRN 65409-15-6
CMF C13 H16 O2



CM 4

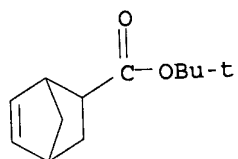
CRN 2628-17-3
CMF C8 H8 O



RN 271599-55-4 USPATFULL
CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1,1-dimethylethyl ester,
polymer with 2,5-furandione and tricyclo[3.3.1.1^{3,7}]dec-1-yl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

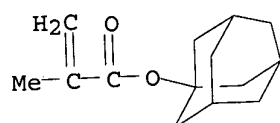
CM 1

CRN 154970-45-3
CMF C12 H18 O2



CM 2

CRN 16887-36-8
CMF C14 H20 O2



CM 3

CRN 108-31-6
CMF C4 H2 O3

